ED 031 877

By-Alexander, Robert E. Long Range Development Plan, University of California, San Diego, October 1963. California Univ., San Diego. Campus Planning Committee.

Pub Date Oct 63

Note-69p: Accompanying revised map is dated 11 Nov 66

EDRS Price MF-\$0.50 HC-\$3.55

Descriptors-*College Planning, *Community Planning, Educational Specifications, Facility Guidelines, *Higher

Education, Land Use, *Master Plans, Pedestrian Traffic, *Site Development, Traffic Circulation

The academic and physical development plans of the University of California at San Diego are outlined. Facilities for 27,500 anticipated students are divided into twelve colleges of about 2300 students each. The twelve colleges are arranged into three clusters of four each, grouped around the central academic and administrative facilities, in accordance with the main concept of locating all high usage facilities within easy walking distance of each other. The campus circulation patterns are based upon pedestrian traffic; vehicular traffic is completely separate, and provision is made for perimeter circulation and parking. Specific areas described and illustrated include landscaping, grading, circulation and parking, land and building use, the surrounding community, stages of plan implementation, architecture, and special features. Layout sketches are provided showing plans for heating and cooling distribution, electrical distribution, and water, sewage, drainage and gas systems. Information relative to particular facility and building use is tabulated. A large map shows the overall long range development plan. (HH)

U.S. DEPARTMENT OF HEALTH, EDUCATION & WELFARE

PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL OFFICE OF EDUCATION POSITION OR POLICY. THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE

Prepared by the Consulting Architect & Planner, novent E. Alexanden, F.A.I.A. AND ASSOCIATES Under the Auspices of the Campus Planning Committee, CHANCELLOR MENBERT YOUK, Chairman Assisted by the Office of Architects & Engineers, s. w. ripperrs, Building Program Coordinator

ED03187

996 100

EE

ng Range Development Plan

UNIVERSITY OF CALIFORNIA, SAN DIEGO, OCTOBER 1963

October, 1963 San Diego: Office of the Chancellor

ERIC

As chairman of the Campus Planning Committee, I take pleasure in forwarding to you the Long Range Development Plan for the San Diego campus. The academic master plan for the campus was accepted in principle by The Regents on February 15, 1963. Concurrent with refinement of the academic master plan during the past 18 months, work has proceeded on the development of a physical long range development plan which would express and make possible the concepts contained in the academic master plan.

The primary responsibility for this planning has rested with Robert E. Alexander, E.A.L.A., consulting architect and master planner for the San Diego campus. He is the author of this report, and has worked closely with the Campus Planning Committee and the Office of Architects and Engineers, who have 1-yiewed it during the various stages of development. In the generation of this comprehensive plan, consideration has been given to every aspect of campus development, including site, climate, architecture, landscaping, roads and parking, utilities, recreation and playfields, and student housing.

The long range development plan was presented to The Regents at their meeting on the San Diego campus on February 14, 1963, and was enthusiastically received.

It is also recognized that planning is not a static process, and that, as time passes, changes in the plan will be required. This is not only necessary but desirable, and the value and success of a plan of this type should be judged, in part, by its ability to accommodate the changes that new ideas will require, while, at the same time, still preserving its basic concepts.

I believe that this plan meets all of our requirements and wishes imaginatively and effectively, and I therefore recommend that it be presented to The Regents for adoption in principle.



Foreword

This plan and report have been prepared by Robert E. Alexander, E.A.I.A. and Associates under a master planning agreement with The Regents. Results of this planning effort, which was assisted by the San Diego Campus Office of Architects and Engineers, and by the University Statewide office, were reviewed each month by the San Diego Campus Planning Committee which formed or endorsed the policy recommendations of the plan. Seldom has an architect of a new campus been favored by such a helpful university staff, both local and statewide, and stimulated by such an entlusiastic faculty and administration. Even more remarkable are the enlightened and sophisticated planning policies of the President and The Regents and their personal devoted interest which have contributed decisively to the results.

Twelve months after the start of work, the plan was presented to The Regents in February 1963 and was received enthusiastically. Approval, however, was withheld pending satisfactory definition of the terms of transfer of 456 acres from the City of San Diego to the University, approved in October 1963. This process resulted in the modification and definition of roads around the campus, and changes in land use in the Community Plan The traffic consultant also made proposals which resulted in some changes in the campus road system.

The only major change in the road alignment moved New

Miramar Road east of the freeway to the south boundary of the campus, so that the east married student apartment area is not separated from the balance of the campus by a major thoroughfare. At the same time, space for a primary school was reserved adjacent to this area, Genesce Avenue at the northeast boundary of the campus was moved south to recognize the topography, and East Gate Mall was developed as an entrance to the campus from the east.

The most significant land use change provides for a commercial town center in the valley south of the campus, ruther than on the Camp Matthews plateau or at the southeast corner of the site. 30 acres adjoining the northwest comer of the campus was changed from recreational use to selected research, excluding manufacturing. The residential holding capacity was increased by adding to some multiple residential area close to the campus and by changing some areas previously designated as "open space" to residential use.

These changes, none of which affects the basic plan concept, have been incorporated in the black and white map folded in the rear cover. No change has been made in other graphic material. As a guide to development, the plan has been designed to absorb such revisions and even more drastic ones on a continuing basis.

State of the Campus-1963

ERIC

Chemistry departments. Building D, a four-story Biology and Chemistry laboratory building, is under construction and the structure is virtually complete. Building E, which will house as a student center. The construction of Building F, to provide under-graduate laboratories, expected to begin in July, 1964, First College, UCSD is already in operation on the office building, is occupied by administrative offices aculty and graduate research activities. Building C, be let early in 1964 for the first Residence Halls and the General Services and Cafeteria Building, which will serve In the fall of 1963, thanks to the head start provided by the a five-story laboratory building, is occupied by the Physics and the University Library for several years, as well as Social Science and Humanities classrooms, is under construction. Connew campus. Building A provides high temperature hot water water for air conditioning, and contains the central telephone exchange. Building B, a seven-story graduate labolete the physical facilities for The First College, ac-School of Science and Engineering, which has since been desigcommodating about 2500 students anticipated in 1968. nated The and chilled ratory and as well as f tracts will will comp

In the fall of 1963, 280 graduate students were enrolled in

المسارب

the School of Science and Engineering. To the distinguished Science and Engineering faculty, ten professors in the Flumanities and Social Sciences had been added, and classes were offered for the first time in Philosophy.

The unanticipated number of requests for admission by highschool seniors, coupled with the advanced state of readiness at UCSD, has led to a change in tentative plans. Instead of admitting 75 juniors or seniors in 1965, UCSD will probably welcome 150 or more freshmen in 1964. It is planned that they will be channeled into a one-year sequence of mathematics, science, humanities, and modern foreign language courses, and that the first under-graduate majors will be in Biology, Chenistry, Earth Science, English, Philosophy, Physics, and Mathematics.

A Dean of the School of Medicine was appointed in October, and advance planning for this important element of UCSD is well under way. Thus the San Diego Campus is an active operating institution, prepared to fulfill its role in the expanding University system on schedule, providing the voters of the State continue to support the development of their human resources through higher education.

Contents

SUMMARY / 1

I HISTORY / 2

Program / 5

SITE / 10 III

CONCEPT / 12 ≥

LONG RANGE DEVELOPMENT PLAN / 16

Landscape /16
 Grading / 19
 Circulation and Parking / 19
 Use of Land and Buildings / 21
 Utilities and Services / 23
 The Community / 25
 Stages / 26
 Architecture / 28
 Features / 32

APPENDICES / 36

This document contains many charts and diagrams which may not be legible in reproduction. In spite of this fact we feel the total document to be of sufficient importance to reproduce.

Mustrations

Systematic Layout of Gas System / 50 Long Range Development Plan in Rear Cover Pocket Comparison of University Plans at Same Scale / 40 Model of Long Range Development Plan / viii Pueblo Lands Map, 1870 / 2 Scripps Institution of Oceanography, 1912 / 4 Systematic Layout of Drainage System / 49 General Campus from East of Freeway / 31 Systematic Layout of Sewer System / 48 Systematic Layout of Water System / 47 Approximate Basic Grades / 42 Heating and Cooling Distribution / 45 Use of Land & Buildings / 20 Communications Tower / 35 Community Plan / 24 Community Features / 25 Stages of Growth / 26 College Types / 29 Electrical Distribution / 46 Circulation & Parking / 18 The Site / 9 Map of the Region / 10 Walking Time / 14 Landscape Plan / 17 Central Views / 32 Analyses / 12 Concept / 13 Recreation / 21 Area Plan

Tables

Assignable Square Feet Required to be Scheduled for Academic Uses to Satisfy Estimated Growth / 52 Automobile Parking / 43 Estimate of Athletic & Recreational Facilities / 43 Space Estimated for "Typical" College UCSD / 37 Summary of Space Estimates—Total UCSD / 38 Faculty Strength by Campuswide Graduate UCSD Academic A.S.F. Required to Satisfy List of Buildings and Architects / 52 Estimate of Land Requirements / 39 Campus Planning Committee / 53 Buildings to be Demolished / 53 Faculty and Student Body / 36 Department in 1975 / 36 UCSD Available Land / 39 Estimated Growth / 51 Land Use—UCSD / 44 Assumptions / 38 Consultants / 53

Edo : All Miss



Summary

The unique Academic Plan of UCSD proposes to subdivide 27,500 students into twelve colleges of about 2300 students each. Each college is to administer undergraduate education strong in the humanities, social sciences, natural sciences, and technology, and will offer graduate courses administered by centralized departments. A student will be able to take at least two thirds of his curriculum in the college in which he is enrolled and not more than one third in adjacent colleges. Four colleges, varying in emphasis, will offer practically the full curriculum of the University.

The Long Range Development Plan arranges twelve colleges in three clusters of four each, grouped around central facilities referred to as a communications center. Each college will contain residence and dining halls, a reading room, and informal playfields supplemented by an intramural gymnasium for each cluster. An athletic area adjacent to the academic area will serve intercollegiate sports.

Academic areas will be concentrated west of the San Diego Freeway, which will take the major traffic from Highway 101 in 1967. Highway 101 will then be diverted westward to become La Jolla Scenic Drive, forming the west boundary of the campus. Construction of Genesee Avenue and New Miramar Road will complete the perimeter circulation of the campus, providing a 640 acre area and a 220 acre area free from through traffic.

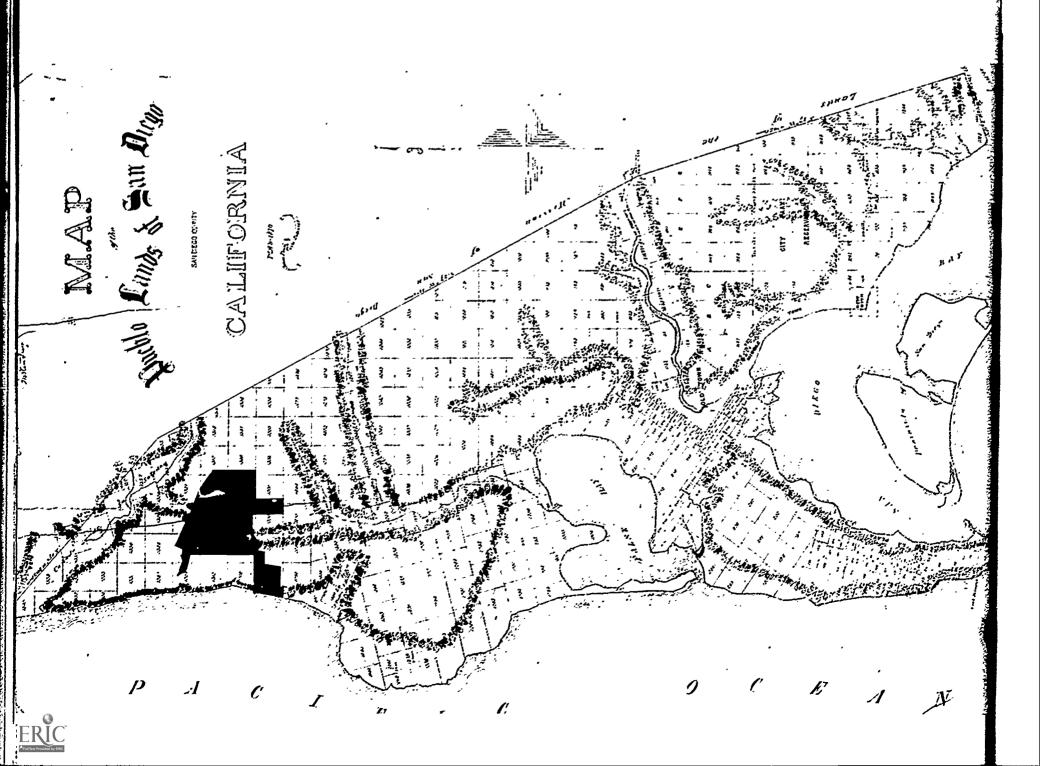
Each college, reflecting its distinctive academic character, ill have a form of its own. Four architectural types are sug-

gested as examples: an open plan, a cube plan, a tower plan, and a cloister plan. A major north-south "Champs Elysées" on the ridge now occupied by Highway 101 and an east-west promenade are proposed to tie the colleges together with uniform paving, tree planting, light fixtures, benches, and other "campus furniture". Stepping off the main circulation into a college plaza, one will encounter a different paving texture and color, distinctive flowering trees, and light fixtures. Thus these college courts may be thought of as twelve jewels strung together on a necklace of promenades.

Major features include a monumental sculptured communication tower at the center of the campus and smaller specialized towers to mark the centers of the three clusters of colleges. A terraced spray pond will provide chilled water and create an exciting spectacle at the Scenic Drive entrance to the campus. The plan envisions an acrial tramway from the beach level to the upper campus, locations for a future mass rapid transit station, and a helistop. A conference center is proposed south of the city golf course overlooking the Pacific Ocean

city golf course overlooking the Pacific Ocean.

Economy and flexibility are inherent in the growth plan which develops one college at a time progressively from south to north. Thus when one third of the plan is developed by 1975, only a small portion of the site will have been committed, and radical changes in subsequent development can be made without undue loss. The first college, to be completed by 1968, is under construction, and the first buildings were occupied in the fall of 1963.

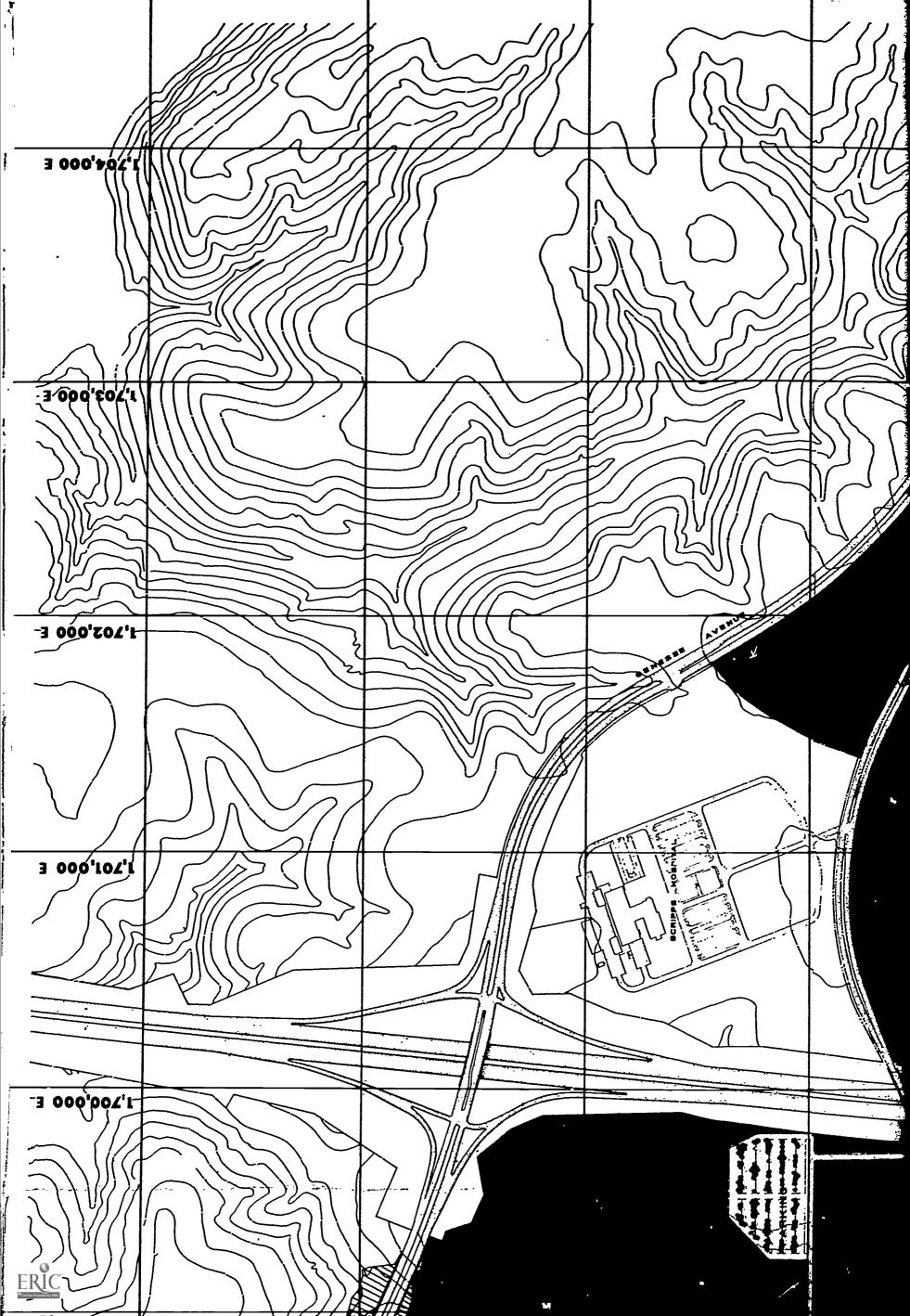


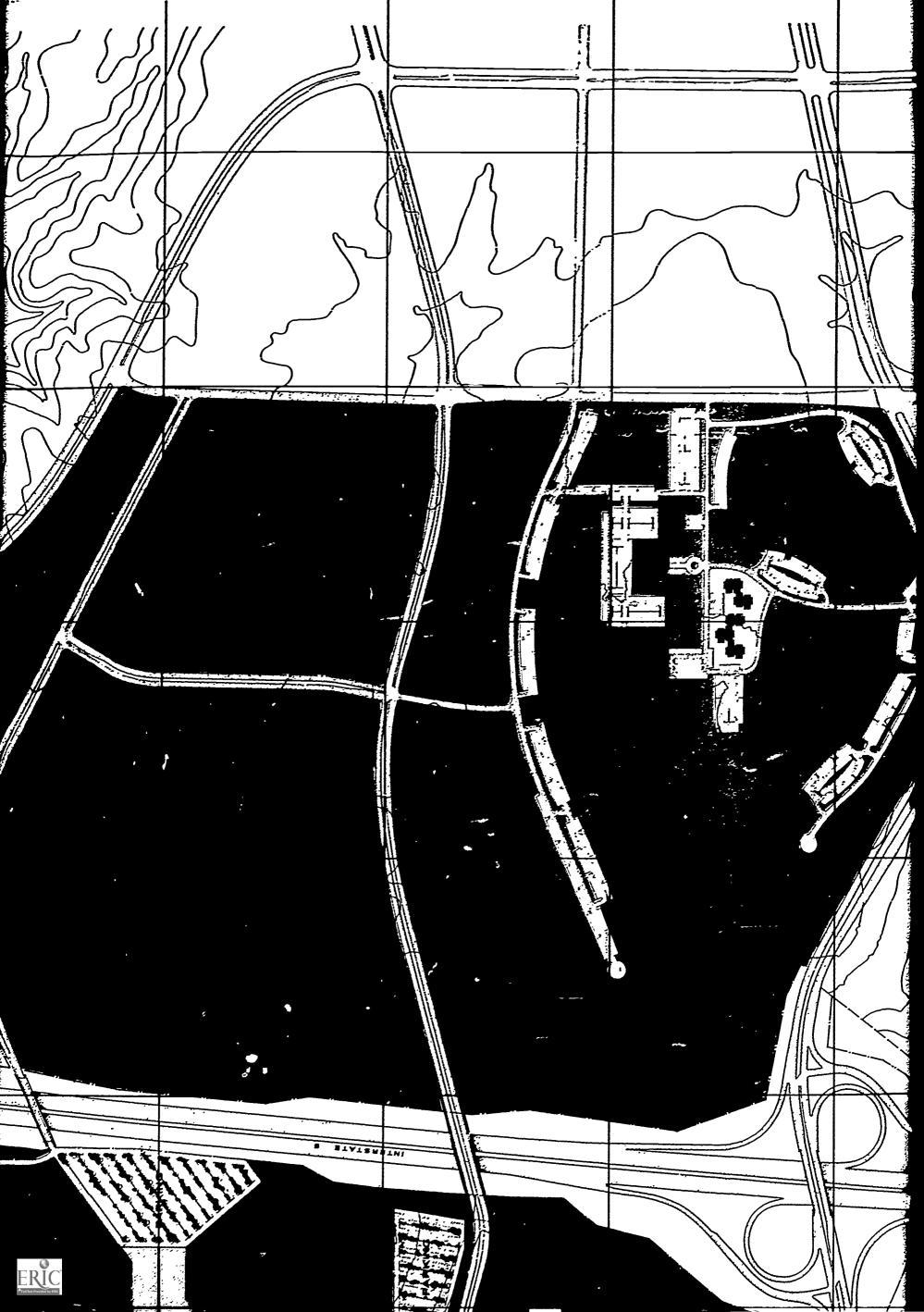
I. History

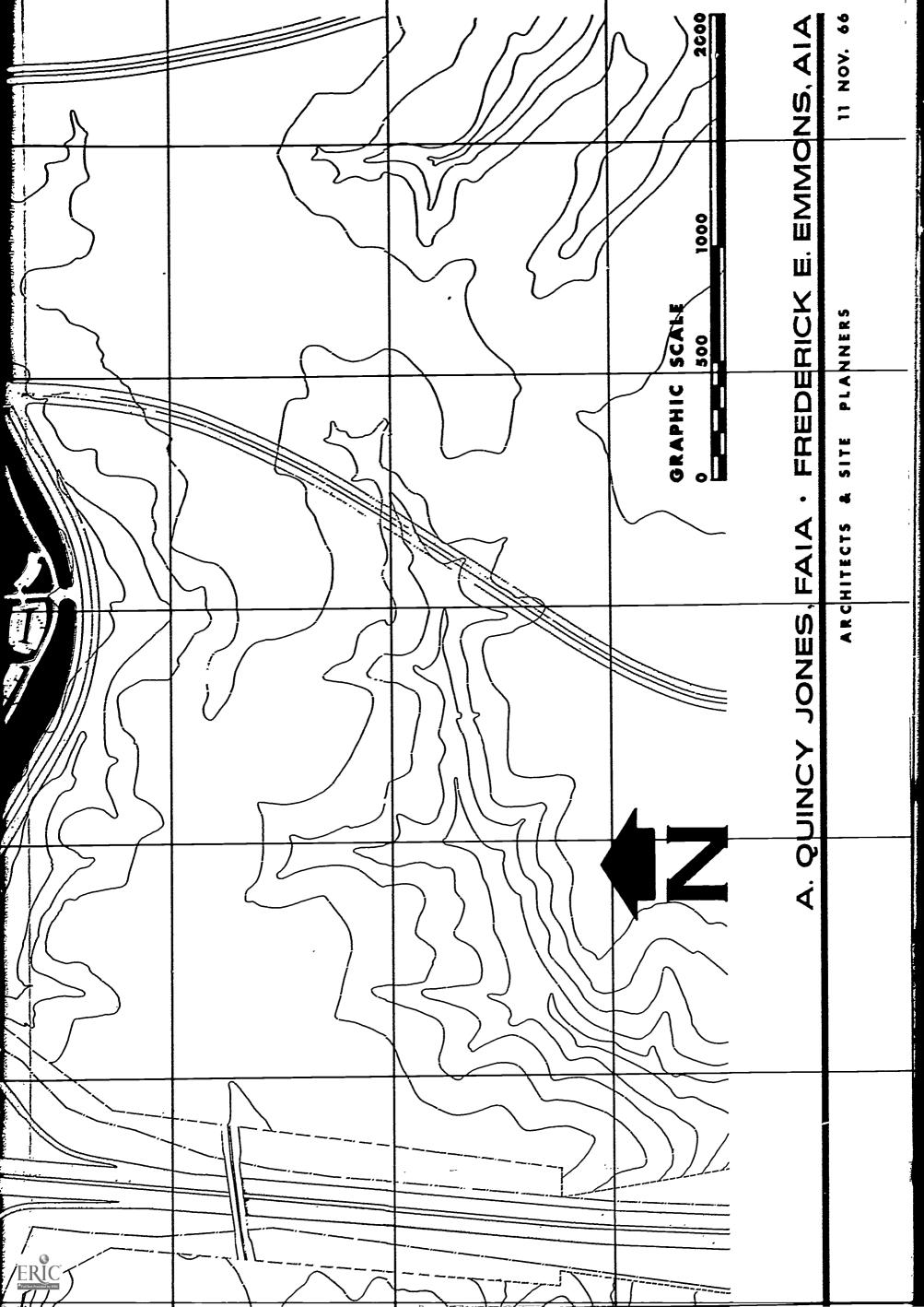
Countless thousands of University of California, San Diego students in the future will occupy a site rich in California prehistory and history. The Radio Carbon Dating Laboratory at Scripps has verified that human beings enjoyed the site over 7,000 years ago. Cabrillo's discovery of San Diego harbor fifty years after Columbus discovered America, and Junipero Serra's founding of the first Upper California Mission at San Diego seven years before the signing of our Declaration of Independence, established a Spanish tradition. The 1870 survey of pueblo land, some of which is still owned by the City, shows a prominent trail probably used by the earliest explorers up Rose Canyon, across the University site, and down Sorrento Canyon. El Camino Real (The Royal Highway) is proposed to become the major pedestrian way on the new general campus.

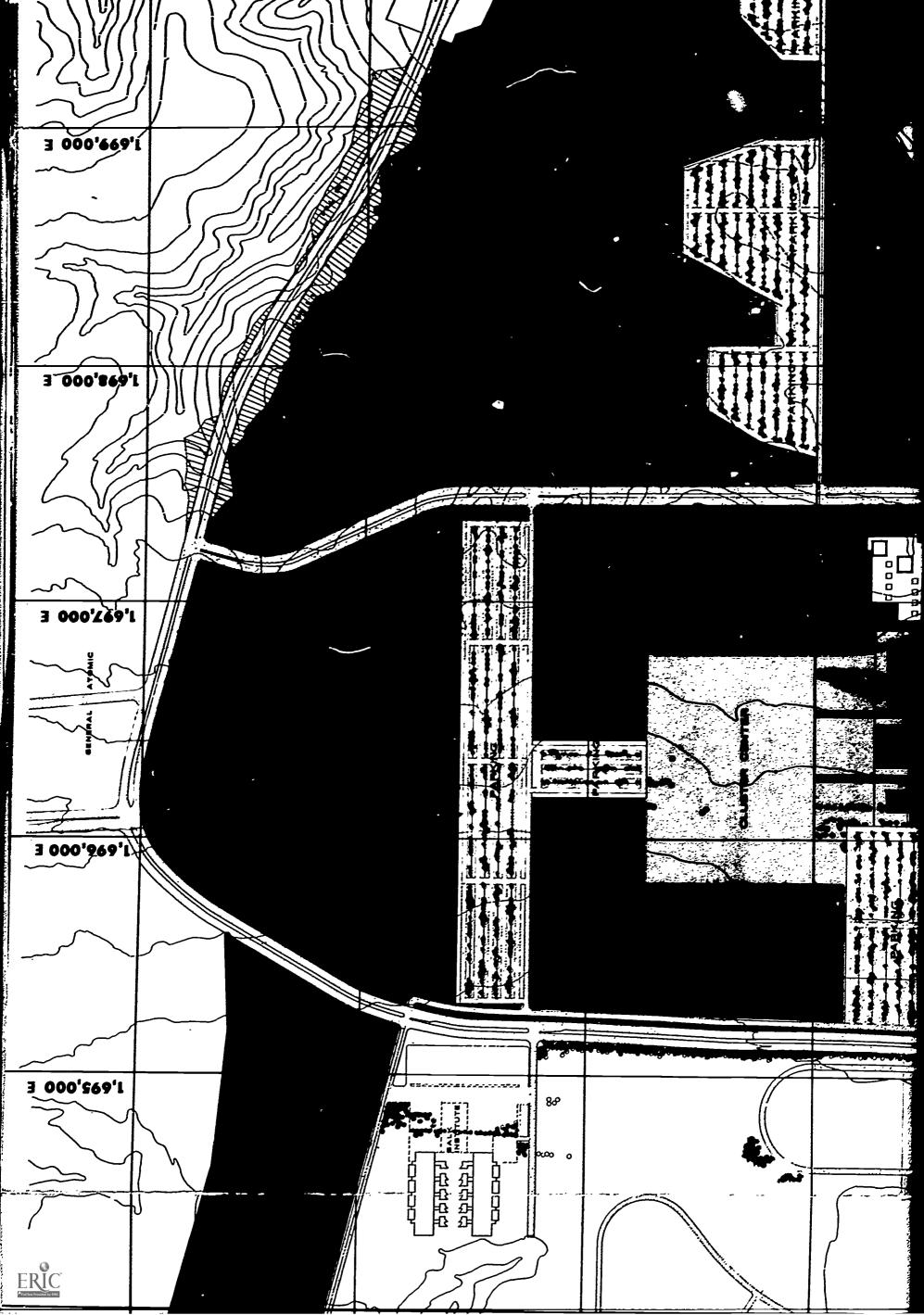
In 1904, E. W. Scripps, founder of the newspaper chain, established a center for the study of the ocean in La Jolla Cove. The proximity to shore of deep sub-marine trenches brought ocean life close enough for exploration by row boat. In 1912, the Scripps Institution of Oceanography and its 170-acre site were offered to the University. The Regents accepted the offer and received several successive donations of funds from the Scripps family. The Institution has grown in size and prestige, assembling a distinguished faculty and becoming one of the world's major centers for oceanographic research.

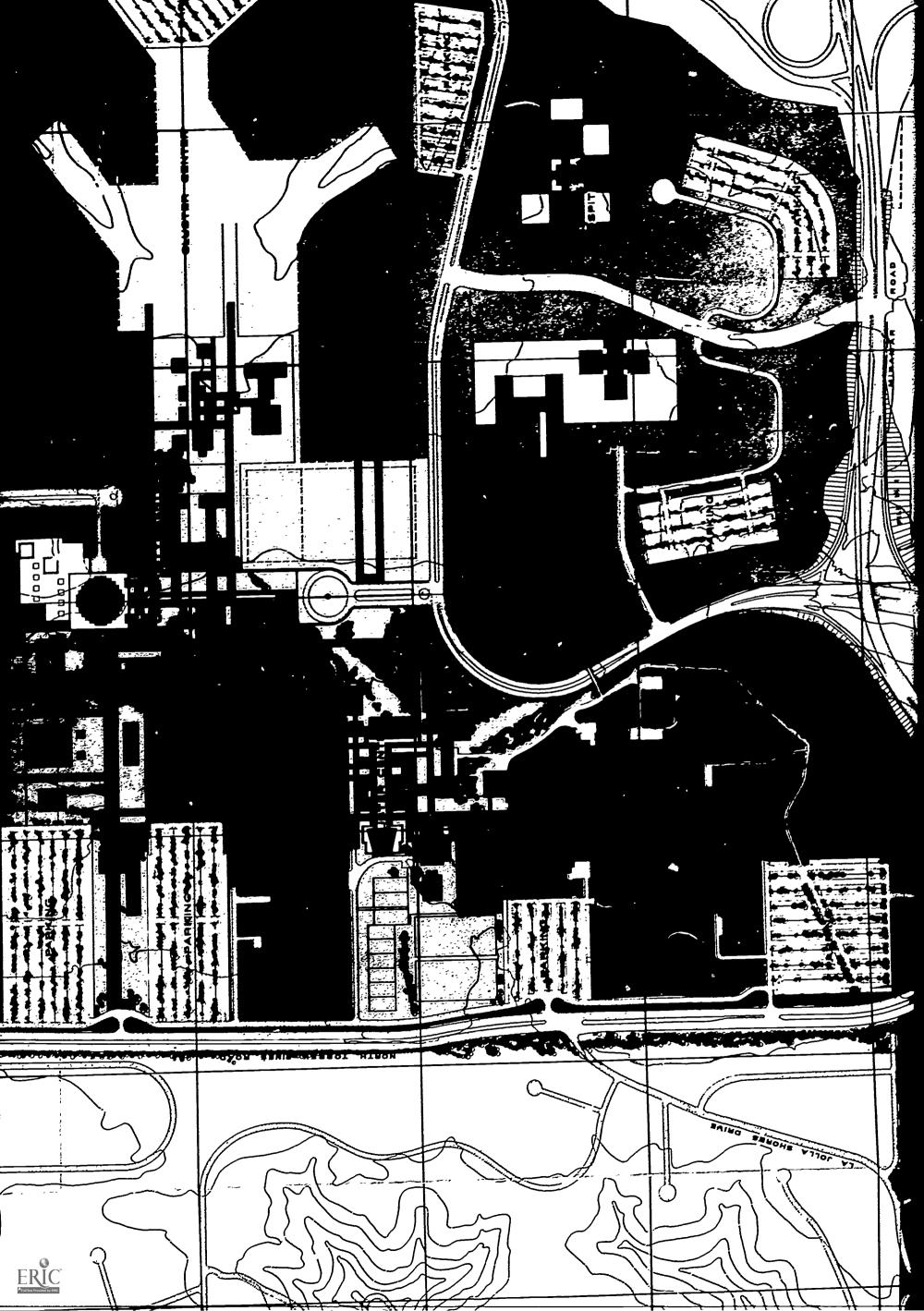
In the late 1950's, a small group of citizens sought the establishment of a top level scientific institution to strengthen the community's emerging research and development industry. Under the leadership of Dr. Roger Revelle, Director of Scripps Institution of Oceanography, the Graduate School of Science and Engineering was established in 1960 on the Scripps cam-

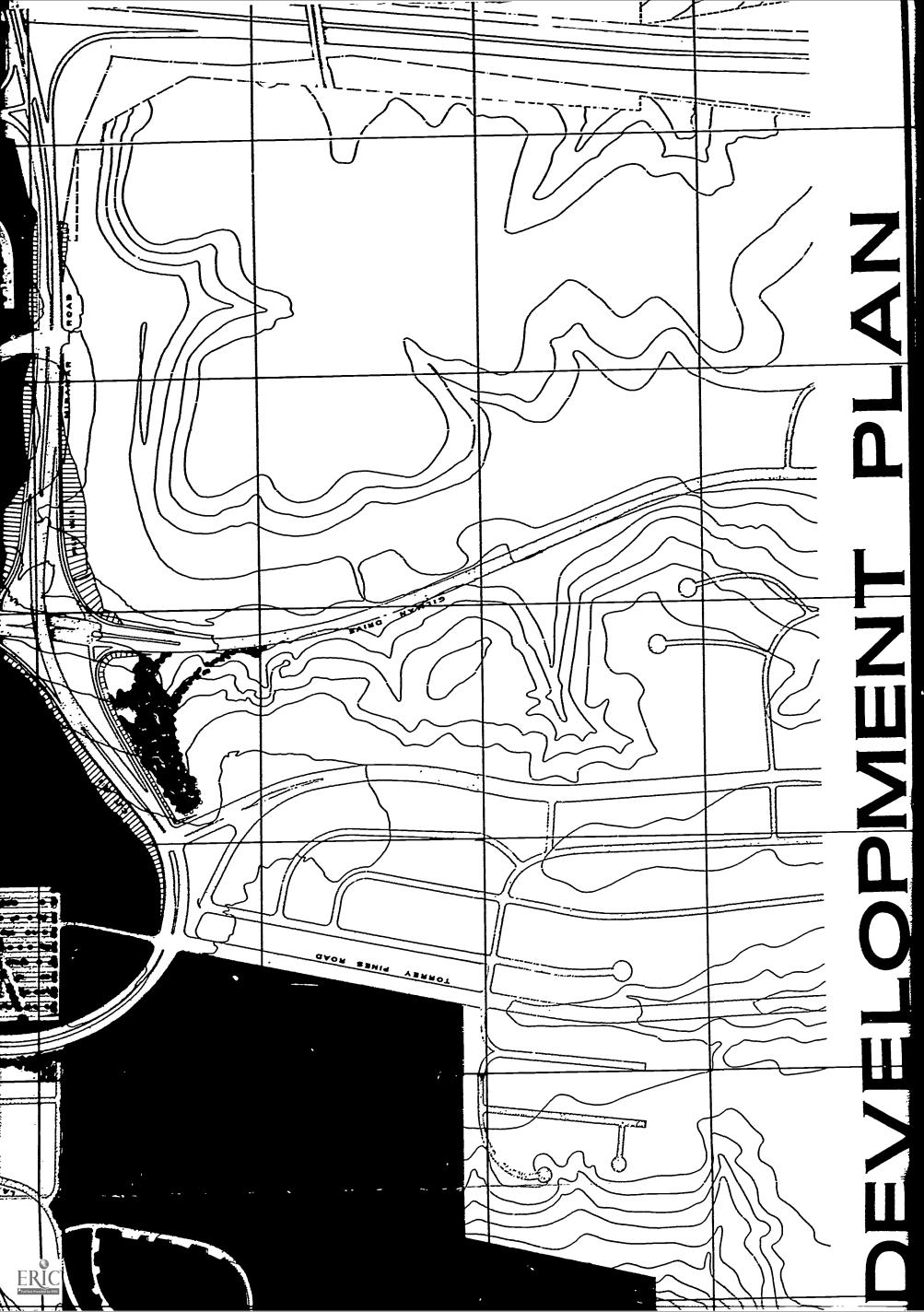


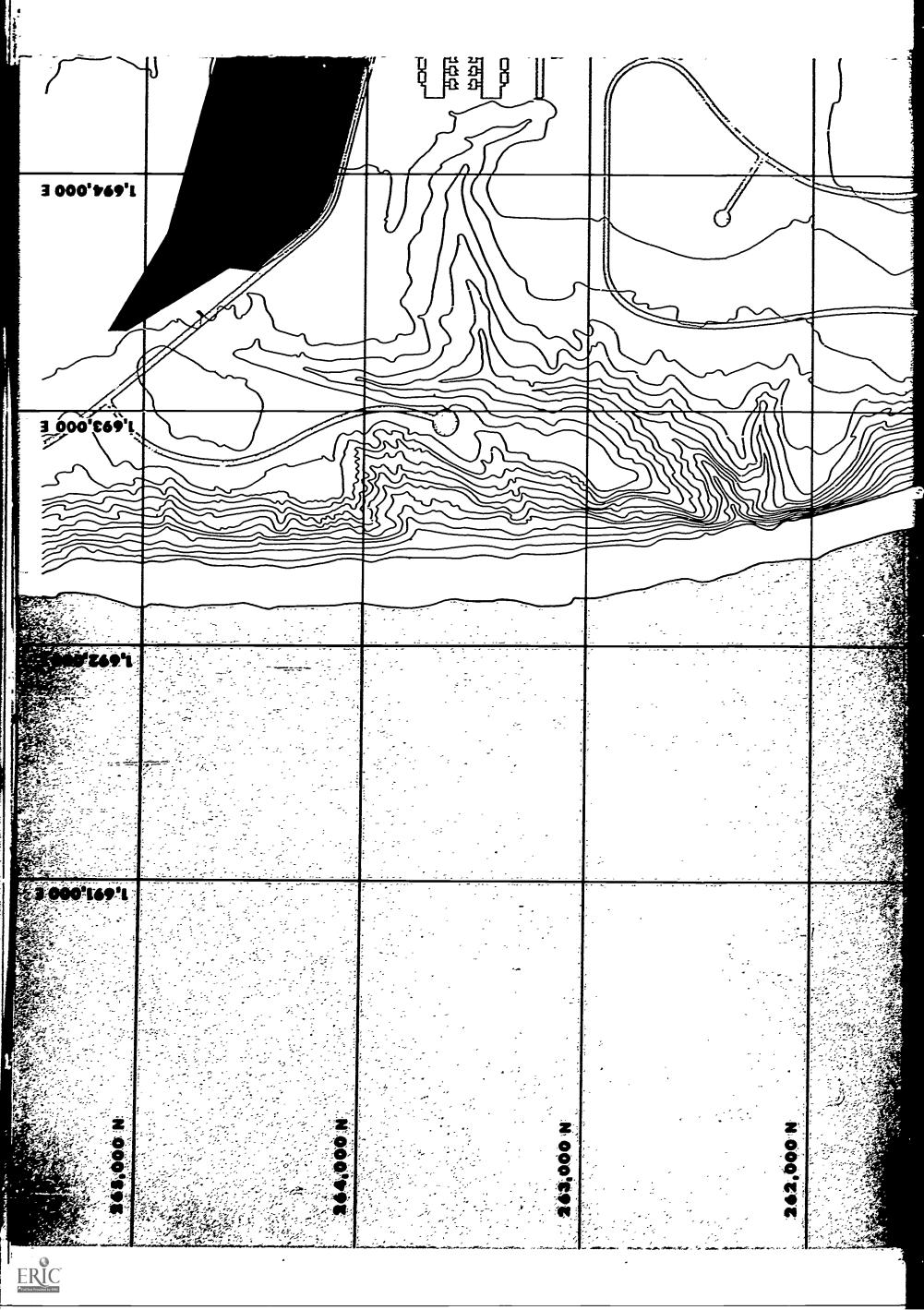




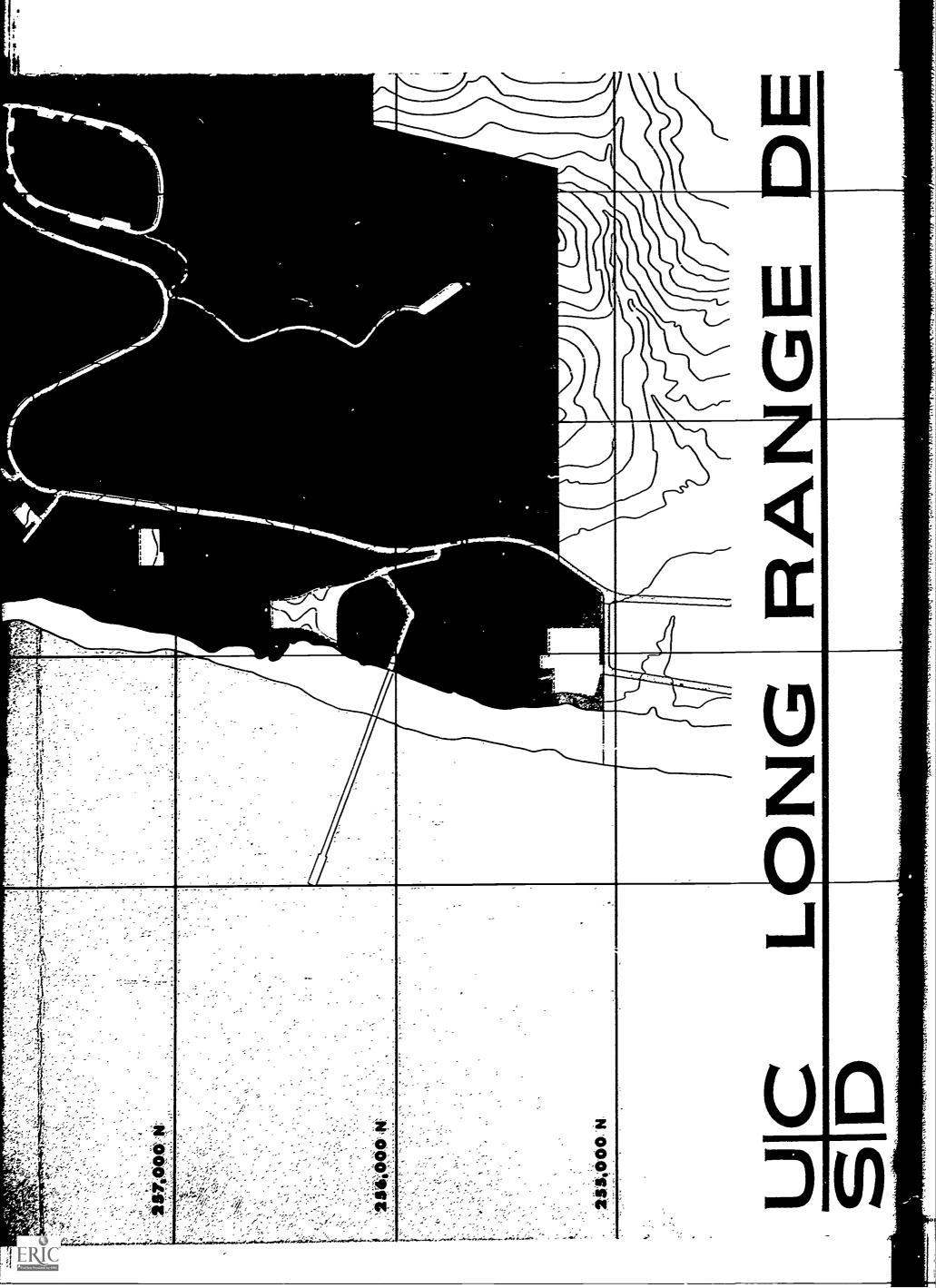












ERIC Arull Rest Provided by ERIC

pus. State appropriations, a donation from General Dynamics Corporation and the City gift of 63 acres of pueblo land southwest of the intersection of Highway 101 and Miramar Road led to plans prepared for the new school by Risley and Gould, Architects. Now partly completed and occupied, this expansion has become the keystone for the new general campus.

In 1957, a "Study of the Need for Additional Centers of Public Higher Education in California," presented by The Regents and the State Board of Education to the Legislature, recommended additional University campuses and identified the need for one in the southernmost portion of the State. The Regents implemented these recommendations in 1958 by authorizing Percira and Luckman to make site selection studies, resulting in designating a location near the Scripps Institution of Oceanography, providing that a contiguous area of about 1,000 acros could be obtained as a gift, and providing "that a Master Plan of Land Use in the area can give assurance of necessary housing and community development for service and convenience of a large campus." The City Planning Department prepared such a plan, entitled "City of San Diego University Community Study." In November 1958, the people of San Diego voted to transfer to the University 450 acres of pueblo land adjacent to Camp Matthews, an area of similar size about to be released by the Marine Corps. The Regents approved the Community Development Plan in 1959, and a revised community plan, dated November 8, 1961. In 1962, the President of the University of about 436 acres, the Camp Matthews site, which completed the basic land requirements of 1000 acres required to establish a general campus. Both transactions provide that the land must be used for educational objectives. The approved plan assumes relocation of roads to the perimeter of the general campus site. Contemplating the possibility of developing the School of

Science and Engineering as one element of a potential general campus at San Diego, Dr. Revelle described in rough outline an academic plan subdividing a large campus into small partial universities or schools of graduate study with undergraduates playing secondary roles. In October 1959, Risley and Gould, Supervising Architects of the School of Science and Engineering, illustrated this concept schematically to the Campus Planning Committee. The Committee had been meeting regularly since 1957, assisted and advised by J. W. Tippetts, Building Program Coordinator of UCSD, and by R. J. Evans, University Architect.

A master plan for the school and plans for the first four buildings were prepared by Risley and Gould, approved by the Regents in March, 1960 and ground was broken in May, 1961, the first buildings being occupied in 1963. Three of these are graduate laboratory and office buildings.

The completion by 1967 of a library, humanities and social sciences building, an undergraduate laboratory building, a general services and cafeteria building, and residence halls for 800 students will round out the development of the School of Science and Engineering, which will become the first college of the general campus.

In 1961, Chancellor Herbert York took office and the firm of Robert E. Alexander, FAIA and Associates was appointed to prepare the Long Range Development Plan for the general campus and to serve as the consulting architect. Planning for facilities began in February, 1962, based on a report by the Chancellor's Advisory Committee on Humanities and Social Sciences and on earlier informal papers. Basic physical planning concepts were not changed substantially by the Academic Plan prepared by the Faculty under the Chancellor's direction and presented to The Regents in May, 1962, nor by the modified plan accepted by them in February, 1963. The concept called for several par-



tial universities, each having depth in the humanities, social

sciences, natural sciences, and technology.

The Long Range Development Plan for the portion of the campus occupied by Scripps Institution of Oceanography was approved by The Regents in June, 1962, and the plan for the general campus was presented formally to the Grounds and Building Committee of The Regents February 14, 1963. Following the policy of The Regents, this plan is subject to review and periodic amendment, as academic, physical, and fiscal conditions and needs may warrant, in order to assure its constant correlation with the campus Academic Plan and the campus long range project priority list. It is intended that the Long Range Development Plan be reviewed annually by the Campus Planning Committee, the Chief Campus Officer, the Vice President-Business, the President, and by the Committee on Grounds and Buildings of The Regents. This policy, calling for annual review and for a re-examination in detail and republication once every five years, transforms a static plan into a dynamic planning process.



SCRIPPS INSTITUTION OF OCEANOGRAPIIY, 1912 (Historical Collection Title Insurance & Trust Co., Union Title Office, San Diego, California.)

II. Program

1. ACADEMIC

Public universities in large growing states such as California tend to become very large. Even after raising entrance requirements to admit only the top 12% of secondary school graduating classes, and anticipating close to 40% graduate students, it is estimated that 130,000 students will be eligible and will wish to enroll in the University of California by 1975, and that by the turn of the century this figure might double. To provide for this growth, The Regents established a policy maximum of 27,500 students for any one University of California campus, and commenced planning for three new general campuses of this capacity, supplementing Berkeley and UCLA which will soon reach the maximum, and four other existing campuses planned for somewhat smaller enrollments.

Such a large university campus offers many advantages. It can support a very large library. The number and diversity of faculty members is large. On the other hand it tends to be impersonal, since the members of a 5000-student entering class can hardly know one another, much less know all the faculty. A professor tends to know only a limited number of his colleagues, and to know hardly anyone outside his specialty. Various plans have been devised to try to offer the advantages of a

small organization within the framework of a very large one.

As early as October 20, 1955, Dr. Stephen C. Pepper wrote to President Clark Kerr, "It seems that a plan should be discoverable by which the benefits of a large university with its superior laboratory and library facilities, and the eminence of its faculty, could be combined with the advantages of a small college with its compact student group, and opportunities for fellowship, mutuality of interest and of study program, and esprit de corps. With house units organized into colleges; such a plan appeared realizable."

At San Diego, faculty studies initiated in 1959 were continued under Chancellor York with the assistance of Statewide committees and the Academic Senate and culminated in the Academic Plan approved by The Regents, February, 1963. This plan should not be confused with the English residential college system. In the latter, a student reads, writes, talks, eats, and sleeps in his college, but goes to central facilities for principal lectures laboratories, and libraries. The UCSD plan is unique as far as we know. Each college would be a partially complete university, described in the Academic Plan as follows:

Alexandra and an analysis and a



Form of the College Plan in 1975 (Guidelines):

The present study attempts a visualization, as concrete as possible, of the college structure as it might be in 1975, when the campus will have reached 9200 students, one-third its ultimate size.

- 1. The colleges must be small enough to avoid the impersonal character of the large centralized universities.
- 2. Each college is to have an individual character of its own.
- 3. Each college is to constitute a meaningful and fairly selfcontained educational entity, supplying perhaps two-thirds of the educational and social requirements of its undergraduate students.
- 4. Research institutes and graduate schools are, in general, to be associated with a single college, but participation by members of other colleges would be regarded as entirely normal.
- 5. The organization of the faculty follows the general plan of Part I.
- 6. Teaching loads and administration duties of the faculty must not significantly exceed those of a centrally organized campus.
- 7. The organization must be such that, in general, each student and faculty member finds himself in the spot in which he wants to be.
- 8. The 1975 plan must allow for natural subsequent development until the ultimate student body size is reached.

From these assumptions follow these principles:

- Weak and service departments must be avoided. Rather than have a weak department, a college should rely on another college in which this department exists in strength.
- 2. Each college must have strong activities in parts of the natural sciences, social sciences and humanities.
- 3. Each college must have its own characteristic orientation in each of these three areas.
- 4. The campus as a whole should have a character of its own. Natural, distinctive features are emphasis on science—in particular, ocean, space and biological sciences; Latin America and the Orient; the arts.

Phasing of the Plan

Colleges would be built up, one at a time, until they reach full size, or nearly full size, at which time the next college in line would be established. Thus from now until 1968, there will be only one college. In 1968, fission of that college will occur with the creation of a second, adjacent to it. A second fission will occur around 1971, and the third, producing the four colleges discussed in the remainder of this section, would occur in 1975. Since the first fission of one college (the present SS&E) into two colleges will not take place until 1968, the final details with respect to how such a fission would occur need not be worked out in detail at this time. The detailed description (Appendix 36), therefore, should be considered as one example of how it might be done rather than as a concrete plan.



2. PLANN ING

The consultant translated the Academic Program into a space program based in a distribution of subject fields and student levels enrolled at Berkeley, in the fields anticipated in a student levels enrolled at Berkeley, in the fields anticipated in a student levels enrolled at Berkeley, in the fields anticipated in a simplified program at UCSD. "Kestudy Standards" of the State of California were applied to produce an estimate of space requirements for a typical college. (Appendix 37). The most significant factor that emerged from this study was that out of almost one-half million gross square feet of academic space serving a college of 2300 students, 70% is laboratory space. This space is so substantial that it can be decentralized in colleges economically. This does not result from over-emphasis of science and technology. More than 45% of the students are assumed to be enrolled in the humanities, social sciences, and fine arts, yet only 10% of the space is required for classrooms. An additional 10% is required for offices and 10% for shops, etc. This fact accounts for the predominance of wide buildings, and consequently a heavy "texture" of the plan. Furthermore, because 60% of the space is devoted to research laboratories and offices, more than half the academic space can be on upper floors, served by elevators, without reference to the class break time.

Space for residence halls for 800 students, cafeteria, and general services bring the estimated master planning area for a typical college, space was added for central libraries, physical education, auditorium, general administration, corporation yard, and graduate student apartments. Including 1,000,000 square feet for the basic College of Medicine, space required on the ultimate campus should be designed in multi-story structures.

Physical Planning Objectives and Principles: OBJECTIVES

- To accommodate 27,500 students in a physical plan which promotes the objectives of the Academic Plan of the University of California, San Diego.
- To develop a beautiful, appropriate environment by employing the best resources of the site and region. فہ
- To accomplish these objectives within statewide cost ards of the University and the State of California ن

PRINCIPLES

- a. Academic: The ultimate objectives of the University are education, research, and public service. Therefore, these ends shall take precedence over other goals (such as commerce) in determining planning decisions.
- accommodate their physical and emotional capacities and Human: The physical plan is developed for people, and must sensibilities. Convenience must be weighed against beauty غ
- for changes in the Academic Plan and other policies, especially in the first decade. Flexibility: The campus plan and building plans shall allow ن
- Site: The natural topography and the relationship of the site hance academic life and to present the University to the public. The high ridge now occupied by Highway 101, for to the sun, wind, occan, and mountains shall be used to enings and main pedestrian movement. The effect of topograinstance, will furnish the sites for the most prominent buildphy on the utility system shall be recognized in the plan. ರ



- e. Landscape: The entire visual, physical scene shall be considered a total landscape. Plant material, campus furniture, fine arts, and graphic design shall be employed to enhance the academic plan and human enjoyment of the environment.
- f. Circulation: The pedestrian shall take precedence over the automobile on campus. Major vehicular traffic shall be routed around the campus. Vehicular service access shall be provided to every building. On-campus traffic shall be arated from major pedestrian traffic where feasible.
- y. Parking: Adequate automobile parking space shall be provided. With the exception of some parking garages used to reduce walking distance, parking shall be provided in surface lots to reduce cost to the students and staff. Priority in location shall be given to faculty, staff, commuting students, and resident students in that order. The majority of cars shall be parked at the perimeter of the campus area.
 - h. Utilities and Services: The plan shall recognize a logical sequential development of utilities and drainage. Utilities shall be built underground.
- . Buildings: Each college shall be distinct and reasonably expandable. Academic buildings containing students subject to class-change shall be grouped close together. Large units

- on the order of 100,000 square feet shall be favored over small elements. Building design shall respect the orientation, climate and advantages of the site. Flousing shall be placed on the perimeter of groups of academic buildings. Flousing near the center of the campus shall use less land per unit than housing near the fringes.
- years development. The multiple college plan requires unusual measures and careful control if diversity within diversity is not to lead to chaos. Therefore, unity within each college, differentiation between colleges, and a unified diversity of the campus as a whole shall be the goals. Color, form, texture, materials, landscaping, paving, and graphics shall be used to carry out these principles.
 - Each college shall have its own unity within a strong framework which unifies the campus as a whole and identifies the "center" of a group of "centers." A visual focal point shall identify each cluster and a supreme focal point shall mark the central core.
- k. Sequence: Each college shall be developed as a functional entity before development of a new, adjacent college. Development of three clusters of colleges at the south, north, and east shall follow each other in that order.



- Cost: In general, the space and cost standards of the Statewide University shall not be exceeded for University of California, San Diego. Any specific deviation from this principle shall be justified by a clearly defined academic advantage.
- m. Land Acquisition: The direct functions of the University shall be accommodated on the land now owned by or pledged to the University. Areas for field stations and auxiliary functions unsuitable for campus location shall be obtained. The University will seek other land adjacent to the campus only to the extent necessary to protect the long range interest of the University.

 n. Community Relationships: Continuing liaison shall be maintained with officials of San Diego and with community organizations such as the La Jolla Town Council to help resolve development problems of mutual concern. The plan shall relate to the community with the maximum long range advantage to the University and the public.
- vate student service organizations and commercial services conveniently located to student, faculty, and staff. Private Organizations: Land shall be reserved for pri-
- ssumptions: (See Appendix 38)



ALROSO SOZIO NY RASISAN TONE SI TONE

III. Site

It is appropriate that a large general campus of the University should be located in San Diego, which is the third largest metropolitan area in the State. One of nine campuses of the University, its location will be within 30 minutes driving time of more than one million people in 1970. Metropolitan San Diego grew 92% during the decade prior to 1950, 85% in the following ten years, and is estimated to reach three million by the turn of the century.

The campus site is on the coast, almost half way from the Mexican border to the north boundary of the county. It is within the city limits of San Diego about 12 miles north of the central city. The San Diego Freeway, now under construction at Del Mar, will make it possible to drive from the campus to the central city in 15 to 20 minutes or to central Los Angeles in less than two hours. The projected Inland Freeway will provide the major access to the campus from the most heavily populated area it serves. The Escondido Freeway, six miles east, will provide access to the "Inland Empire" including Riverside and San Bernardino.

The campus location is north and west of the geographical center of University Community. The Regional Center is located at this geographical center southcast of campus land. Substantial amounts of low-density housing areas have been indicated to the east and southcast of the campus. Some land separated by a broad canyon from the south boundary of the campus has been designated for high-density residential use as well as some land north of the campus, opposite the Torrey Pines golf course. La Jolla lies to the southwest of the campus, and the area immediately west contains a very low-density subdivision. Land north of the campus is designated for research and development

REGIONAL MAP

ERIC .

use, including the site occupied by General Atomics. The surrounding community, to contain about 90,000 people, will have access to the University by a new road system on the perimeter of the campus. Regional access will be facilitated by two freeway interchanges adjacent to the campus, and by two at the Inland Freeway to the east. A deficiency of housing adjacent to the campus may prove to be a problem in the future.

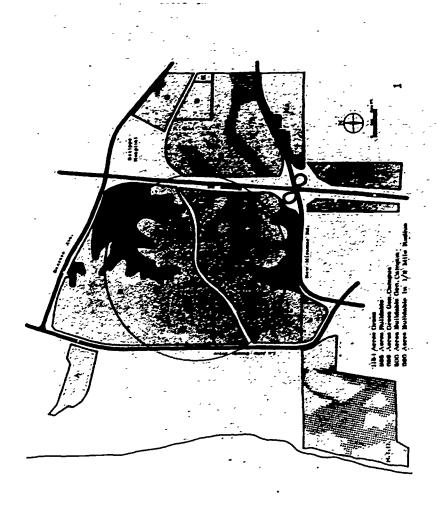
The site itself, especially the western portion, is one of the most beautiful in the world for its purpose. Its most pronounced and commanding topographical feature is a ridge now occupied by Highway 101, running north and south parallel to the ocean, more than 400 feet above sea level. Roughly 100 feet above portions of the plateau east and west of it, the ridge provides spectacular views of the Pacific Ocean to the west and of the Laguna Mountains to the east. Only about 2000 feet west of the campus, a 300 foot cliff drops to a sandy beach. Steep canyons on the north boundary of the campus and one which lies within

on the north boundary of the campus and one which lies within campus boundaries, are more than 200 feet deep.
Studies of noise from jet aircraft taking off from Miramar N.A.S. indicated that reasonable building design precautions would minimize interference and that most campuses have similar noise problems.

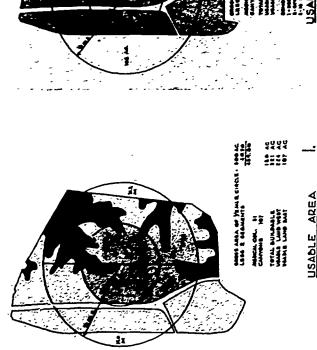
An evaluation of the general soil and foundation conditions

oring letter as follows: "From a foundation and earthwork standpoint the site is practically ideal. The plateau areas, which cally with heavy earth moving equipment, and the majority of Although some minor slûmping has occurred in several of the steep walled canyons, these conditions are not deep seated, and can be corrected wherever it becomes important to an adjacent building site. A number of man-made fills exist in the Camp sulting foundations engineers. They report briefly in their covcontain the majority of the structures, will offer excellent support to conventional spread foundations. Although the materials are firm and competent, they can be excavated economi-Matthews area, but these are relatively nominal in extent and can be removed and re-compacted wherever they affect the on the site was prepared by LeRoy Crandall and Associates, conthem can be readily compacted to produce fill of high quality Long Range Development Plan."

The climate and agricultural characteristics of the site were studied by staff members from the Davis campus under the direction of Eugene L. Begg. Problems of poor drainage, erosion, salinity, corrosive and electrolytic action as well as severe nitrogen and phosphorus deficiency were encountered and mapped. Corrective action can and must be taken in the course of development as recommended in the Begg report.



U.C.S.D. LAND ANALYSIS





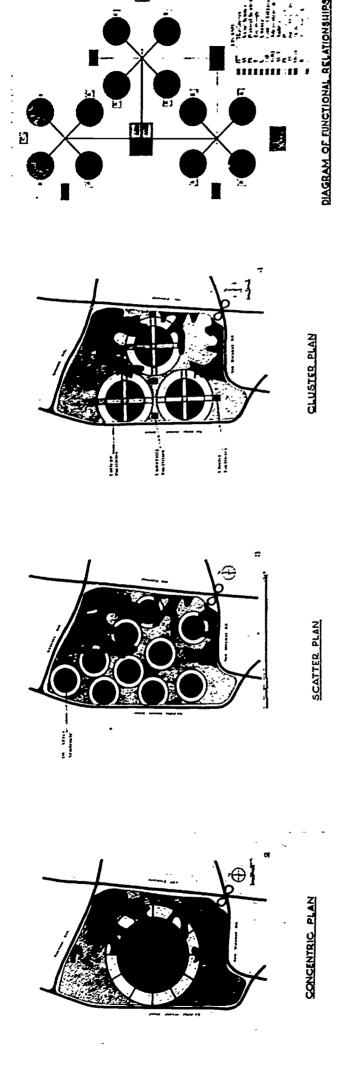
USABLE AREA 2.

IV. Concept

An estimate of land requirements for a campus of 27,500 students based on UCSD assumed criteria (Appendix 39) indicated that at least 300 net acres would be required for academic structures, resident single student housing, parking, and recreation. Graduate teaching and research called for 110 acres additional. If the College of Medicine was to be associated with other academic functions, about 500 acres would be required. The campus site west of the San Diego Freeway contains one square mile. When steep canyon areas are deducted, this portion of the site contains 500 net usable acres.

A one-half mile radius taken from the geographical center of this portion of the site includes 321 net usable acres. There is much more usable land to the west of the center than to the east. Moving the center of the circle west to within one quarter mile of Scenic Drive, it is found that net usable land on the campus within the circle is almost unchanged, and that the area west of the center is in better balance with land to the east. This study resulted in the decision that the general campus would be located west of the San Diego Freeway, and that its center would be feasible east of the ridge occupied by Highway

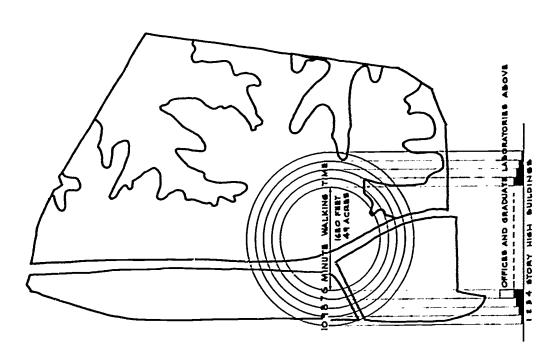




The UCSD problem was approached diagrammatically as follows:

- 1. A concentric university containing 160 acres of academic area in a 3000 foot diameter circle was placed on the site, surrounded by residence hall areas. Conceivably it could be subdivided into pie-shaped colleges to conform to the Academic Plan, but it would be difficult to distinguish one college from another. Central facilities would occupy the space least dependent on class break time. The concept was considered inflexible.
- 2. Each college might attain maximum separation and distinction if colleges were scattered about the campus. This concept might work with even much greater separation if each college were independent. The Academic Plan, however, called for some dependence on other colleges, and on the concept of University-wide unity.
- 3. The germ of the concept finally adopted was the suggestion in the Academic Plan that the first four colleges would be able to offer virtually the entire spectrum of academic opportunities at UCSD. This led to the concept of three clusters of four colleges each, focused on a central area. The idea then evolved that some functions not practical to subdivide into twelve components, and yet divisable at an intermediate level, might be divided into three parts, one to serve each cluster. The problems of walking time and of central facilities interfering with academic functions in large universities were resolved. The planning concept reflects the ideal of the Academic Plan, which in effect calls for three virtually self-contained universities gathered around a central focus. The diagram of functional relationships illustrates the planning concept and the Academic Plan combined.





CAMPUS WALKING TIME

class, and ascending or descending one story height. Thus if classes depending on a class break are located as high as the contained in a circle 3000 feet in diameter, which appears to suming a walking time of 300 feet per minute. Observations of University. The study indicated that a walking time of 275 feet structures alone would require about 160 acres. This area is conform nicely to the concept of a ten minute class break, as-Army are recorded, but the only one based on actual field observation on a campus was found to be one made in 1962 by per minute would be a practical standard, and that about onehalf minute each should be allowed for entering class, leaving fourth floor, such buildings should be contained in a six-minute circle of 1650 feet. Lower building height assumptions would In the land requirement analysis it was noted that academic walking time made by Julius Caesar, Napoleon, and the U.S. Anton Egner, a graduate student of city planning at Cornell expand the circle 275 feet in diameter for each floor deducted, but would also expand the land area required.

The concept was analyzed and tested against the site in terms of topography, land area requirements for the various functions, and circulation. A compelling factor was the existence and location of the School of Science and Engineering on which construction was already well advanced, and which was to become the first college in the general campus. The adaptation of the concept was also influenced by existing roads to be abandoned, and by the probable timing of land acquisition and new road development. A system of "greenways" was studied for its effect on separating colleges and on unifying them into a university campus.

Lând requirements for a college of medicine, as well as its relationship to outside influences, are so important that a special study was made for its site location. Each of the four general locations offered its own advantages, but the only site which could be integrated with other academic facilities for years to

ERIC Productor by ERIC

come, was found to be the area extending east from existing Highway 101 to the San Diego Freeway north of New Miramar Road. Adjacent to the first two colleges, it would offer 60 to 80 acres on the perimeter of the general campus, and would be expandable even beyond that area across a freeway bridge to a 30 acre site east of the freeway.

to a 3o acre site east of the freeway.

This site, however, displaced a "town center" of 53 acres shown on the University Community Plan. Since town center functions appeared to have been provided for elsewhere in the University Community Plan revised in 1961, Real Estate Research Corporation was asked to make a study of commercial facilities. Their retail market analysis is published in a separate report. The summary of conclusions indicates that the community could not support two major town centers a mile apart,

but that there will be a need for a convenience goods center, best located south of the campus. It justifies the possible development of a similar center north of the campus in the future, providing multiple family residential property to the north is developed.

Land use and circulation studies were converted to hypothetical building plans and the resulting interim plan and report was presented to The Regents, July 19, 1962. A general criticism that individual colleges were too close together for reasonable flexibility and for separate identification led to a study of maximum college separation. Limits of walking time and convenience were exceeded. A modification of this plan, conforming to the planning assumptions, became the basic proposal for the Long Range Development Plan.

V. Long Range Development Plan

The Long Range Development Plan is shown in two forms, folded in the rear pocket. The black and white plan, referred to as a "Fact Map," designates areas and buildings by name and shows building heights and numbers of automobiles parked. The plan in color illustrates the architectural form of the plan and its major features, including a suggestion of landscaping, walks, plazas, water features, circulation, and parking. Labels and numbers are omitted to emphasize the design in graphic terms. The plan has been compared with plans of other Universities. (Appendix 40).

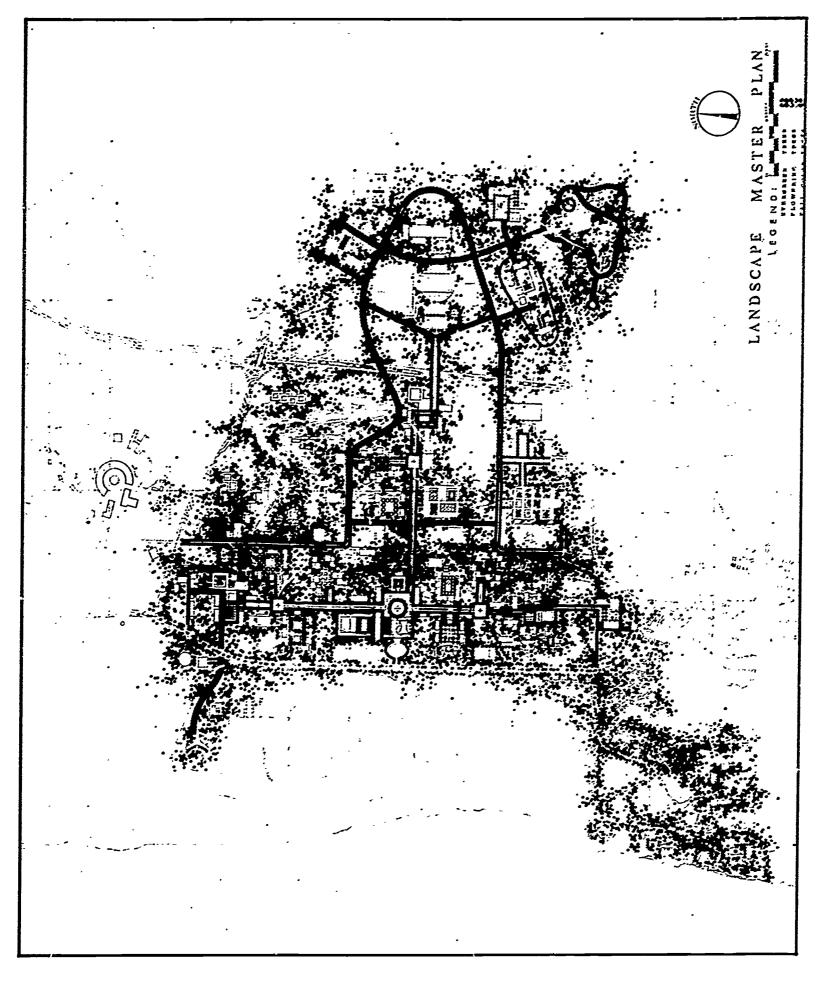
In the case of the UCSD site almost the entire development of the next twenty years, when built, will be visible at a single glance from many locations. The great variety in forms required to distinguish one college from another is proposed to be offset by a rectilinear building arrangement. It is only by super-imposing in ones mind the proposed landscape plan on the Long Range Development Plan, that the ordered unity of building composition is softened by the large areas of informal planting. To avoid confusion and to emphasize the various elements of the plan, they have been treated separately as follows:

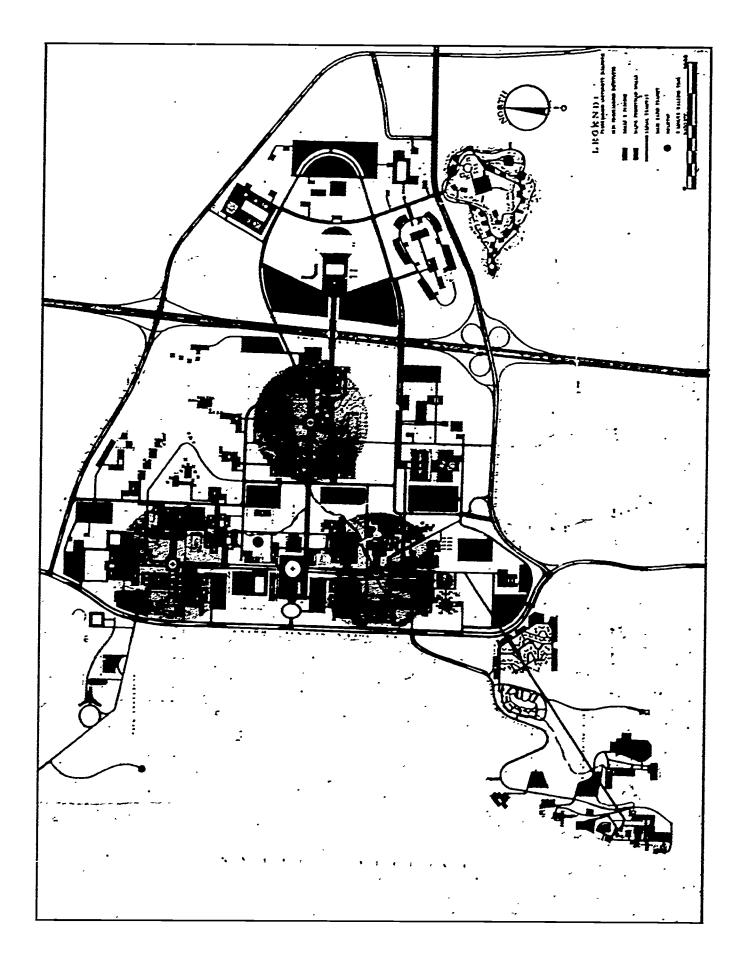
1. LANDSCAPE

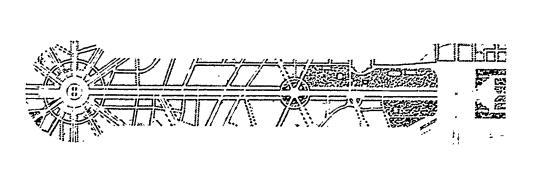
The report on the landscape study by Wimmer and Yamada, ASLA, Consulting Landscape Architect of the campus, outlines landscaping policy, defines a tree list for the first cluster, and estimates landscaping costs. One problem inherent in carrying out the Academic Plan, which calls for each college to have its

general campus walks and main plazas, will contrast with the diversity found in courts and plazas of the colleges. A different planting, paving, benches, and light fixtures throughout the calyptus will be used for the first college, the Coral tree for the tribute to the objective of producing unified diversity. The Carob tree has been chosen as the predominant shade tree for pedestrian malls and major roads where its planting in formal rows will tend to unify the campus as a whole. Thus the main north-south pedestrian way is to resemble in scale one of the great boulevards of the world, the Champs Elysécs. Unified flowering tree is proposed for each college court. Flowering Eusecond, Acacia for the third, and Magnolia for the fourth, for instance. Combined with distinctive paving, textures, ground cover, benches, and light fixtures, the flowering trees are intended to enhance the academic plan by individ 's ting colleges. task of the landscape architect on this campus will be to conown distinction, is that of unifying diverse elements. One major

Existing trees include many good specimens which will be conserved. A separate report on the Eucalyptus lining Highway 101 indicates very heavy damage over the years from vehicular collision and neglect and recommends that they be replaced, because they will probably not survive a change in environment. The large groves of Eucalyptus are effective as a mass background, but consist mainly of very inferior material. The Torrey Pines, unique trees which are native to Torrey Pines Mesa, and which once covered it, will be brought back to the northern part of the site for informal planting.











GRADING.

General control elevations have been established on a grading plan (Appendix 42). The objective has been to retain the major topographical features of the site. Minimum changes in grade are proposed. The high ridge occupied by Highway 101 is to remain at its present elevation, sloping about one percent up from south to north. College courts will be at lower elevations at each side of it. Natural topography has been modified slightly in some cases to separate pedestrian from vehicular traffic. The only dramatic changes in grade from existing conditions are proposed for the freeway, which will be below the general campus plateau, and for roads connecting to it, which traverse rugged terrain. Genesee Avenue for instance, is planned to cross the present site of Sorrento Valley Road on about 80 feet of fill.

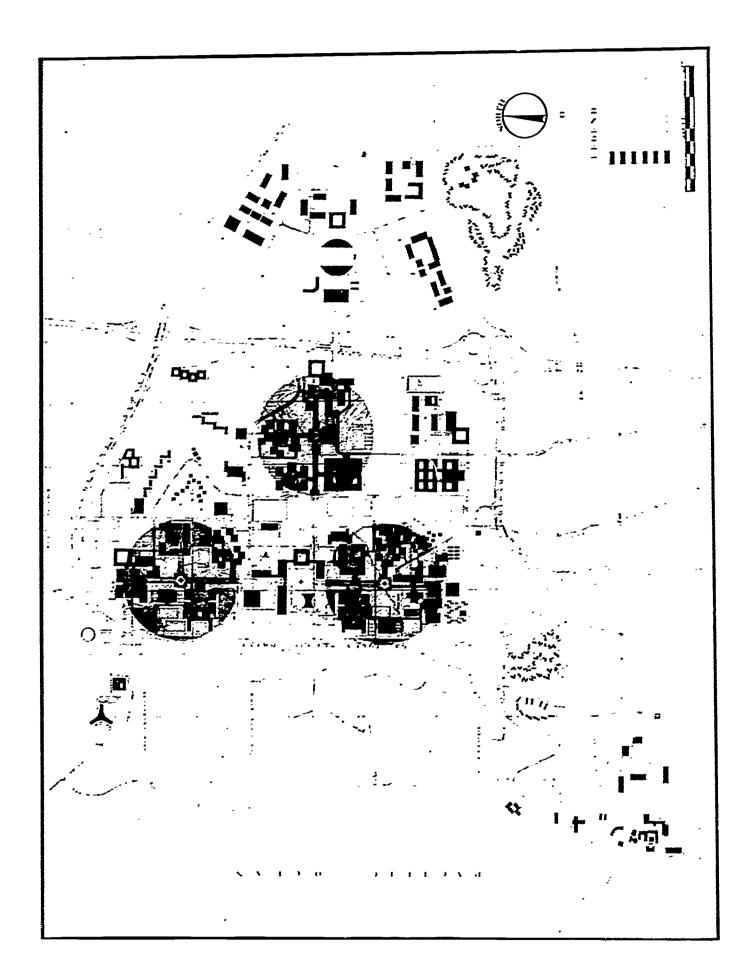
. CIRCULATION AND PARKING

The circulation and parking map illustrates basic policies calling for perimeter circulation of major traffic, parking on the perimeter of clusters, convenient service to every building, and virtually complete separation of pedestrian and vehicular circulation. The three clusters of four colleges each are shown within circles, the diameters of which represent seven minutes' walking time. Major formal pedestrian ways are to be supplemented by informal diagonal paths.

The plan contains parking space for about 25,000 automobiles (Appendix 43). On one level they would require about 130 acres of land, resulting in unreasonable walking time and distance. Consequently, five parking structures are included.

Three of these near the center of the campus are proposed to be developed with recreation areas on the roof. Most of the parking structure sites have been selected in ravines, requiring little excavation to place them below the level of the plateau. Separate parking is not proposed for the 30,000 seat arena, which is designed for students, faculty, and staff. It is anticipated that any university events attracting thousands of outside spectators will be held off campus.

the center of the campus, an assumed mass rapid transit route on the freeway alignment with a station on the main east-west Aquarium and such an exciting and beautiful ride over the La Jolla hills might make such a facility self-supporting. Bus create a modest demand. It is proposed that provisions be made for bicycle parking at each building service court, and that the Scripps Aquarium to the general campus level, south of College I. A schematic design of the latter facility indicates that it might be installed for about \$140,000. The appeal of the supplemental bicycle paths, such as one adjacent and parallel to Scenic Drive, might be required to round out the plan promenade, and an aerial tramway from the beach level near transportation is assumed from the town center west along New meet expectations, the relatively self-contained clusters should minimize the need for bicycles on campus. Travel from married Special transportation features shown include a helistop near Miramar Road and north on Scenic Drive to its intersection with Genesee Avenue. If the Academic Plan and facilities plan student housing areas to the campus, however, may very well bicycle traffic be confined largely to interior service drives. A







BUILDINGS AND OF LAND USE

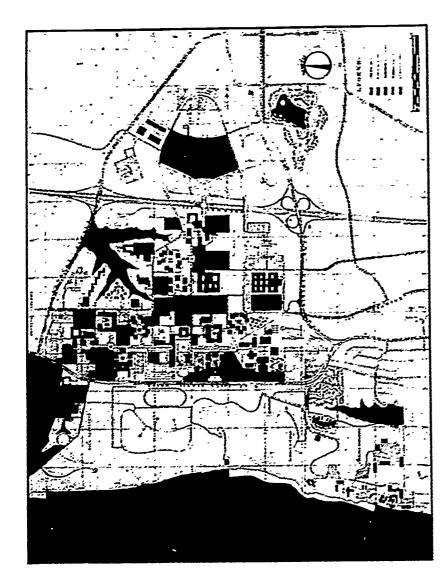
An analysis of land use (Appendix 44) assigns 22.5 acres to each college, including 11 for academic buildings and the balance for general services, residence halls, and recreation. About 100 acres is reserved for each cluster of four colleges, including intramural physical education and a portion of the general campus mall. 44 acres are designated for central facilities, and 56 acres for the College of Medicine, excluding parking. Each of these last two figures includes 100% reserve for expansion. Thus academic, administrative, and residential facilities on campus total 400 acres. Parking and reserves for commercial and institute use bring the total land used on the general west campus to 500 acres, the usable land available.

The 170 usable acres on the east campus are assigned to university physical education, parking, a corporation yard, and reserves for future institutes. 40 acres on the east campus are assigned to married student apartments, as are 24 acres west of Scenic Drive. The 62 acres of the old Scripps site reserved for institutes and 28 acres proposed for a Conference and Recreation Center bring the total land used to 825 acres, which corresponds to the net usable acres available out of 1124 owned by or pledged to the University.

Academic buildings are assumed to average five stories high including basements and to cover 20% of the land. The most

shopping and school facilities. The bulk of the apartments is built ultimately. The plan includes apartments for one-third of the married students, located off the general campus close to rooms, student health offices, and a small facility for resident each college economically and successfully, or whether the ter, or health services might better be centralized for the entire university. The plan provides for housing 50% of the single students, even though only half this amount of housing may be near the center of the plan, to conserve land. Each college is assumed to have a small student center to serve both resident and non-resident students, faculty, and staff. The first one includes a book store, student organization offices and recreation and visiting faculty, as well as dining halls. Experience in operation will indicate whether all facilities can be repeated for book store, for instance, might become a facility serving a clusof the plan, and multi-story elevator buildings when located a "monolithic university," is the location of residence halls and informal playfields adjacent to each college. In each case they sumed to be four-story walk-up dormitories on the perimeter have been indicated on the perimeter of a cluster, and are asassumed to be built at an average density of 36 per net acre. significant difference between the UCSD plan and the





RECREATION PLAN

Athletic facilities are assumed to be divided in half. Fifty percent of the land for athletics is located east of the freeway to serve "hard ball" or intercollegiate sport. (Appendix 43). It is served by a field house, which might also include an exhibition basketball court, comprising 50% of the building space allocated to athletics. The other half is pro-rated to three small gymnasia, each one of which will serve a cluster designed for 9200 students. A small recreation field is attached to each cluster gymnasium, and the balance of the land assigned to athletics is adjacent to the residence halls pro-rated to the twelve colleges. This distribution will provide for soft ball, touch football, tennis, and other court games close to the students. It is hoped that this arrangement will stimulate intra-mural, intercollege, and inter-cluster athletic rivalry.

Service buildings include a communications and mechanical building already completed at the south end of the campus, a future supplementary mechanical building at the center of the plan, and a corporation yard on the east campus. For many years to come, this last named function will probably occupy temporary existing buildings on Camp Matthews. The future permanent site, close to a freeway interchange on the perimeter of the campus, is calculated to reduce heavy traffic through the campus.

To accommodate growth in the distant future, the plan provides space for 21 million gross square feet of construction, including over 3 million square feet of parking garages and 6 million square feet reserved for expansion and unspecified institutes. The only professional school identified and shown separately is the College of Medicine. Others are assumed to be accommodated within the colleges.

SERVICES UTILITIES AND

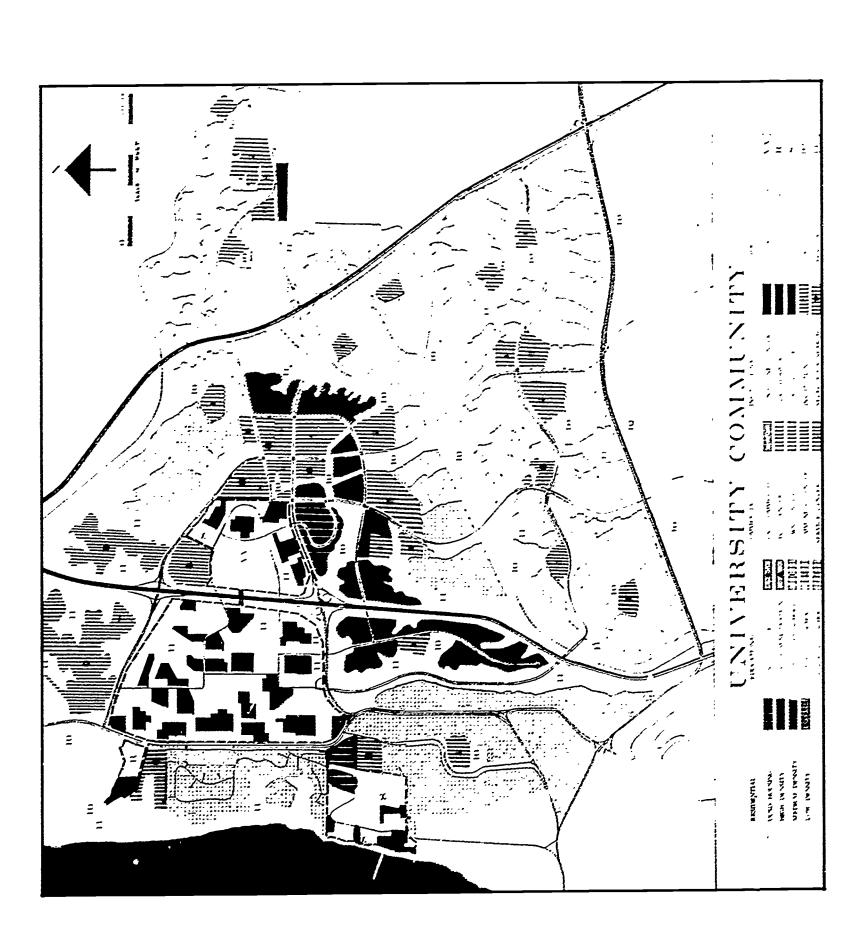
most of the power and communications distribution. The existing plant can be expanded to serve the first cluster. It is proposed to start a new plant central to the campus as a whole in 1975, which may conceivably use atomic fuel to generate electricity as well as hot water, and to chill water for two-thirds of the campus in spray ponds which, because of their design and location, promise to be successful and economical in place of cooling towers. (Appendix 45)

The report on electrical distribution and communications by Frumhoff & Cohen, Electrical Engineers, proposes to continue the power distribution throughout the general campus at 12,000 volts. Services, assumed to come from the south, result in a natural, economical expansion to the north with the growth of the campus. Not only will distribution on campus he plan has been analyzed in general for feasibility, cost, continue the policy, already begun, of providing high temperature hot water and chilled water to buildings from central locations through a tunnel system which will also be used for policies in each categoiry of utility. The report on heating cooling by Boris Lemos, Mechanical Engineer, proposes to

be underground, but the City has adopted an ordinance requiring underground distribution in the surrounding community. A central telephone switchboard has already been established

Recommendations for campus lighting, the fire alarm system, the synchronized clock system, and a paging system are inon the site of the first college, including service to Scripps Institution of Oceanography and all other university buildings. cluded. (Appendix 46)

sewer, storm drains, and gas distribution. As in the case of other utilities, it is reported that plans for growth of the campus from south to north in successive adjacent stages, and basic Boyle Engineering, Consulting Engineers, has prepared a civil engineering report on grading, paving, bridges, water, decisions related to natural topography, result in an economical development plan. Relatively little earth work is contemthe center of the campus, will act as the backbone of the uniead campus is proposed to be served by a University-owned for water chilling or irrigation will not only save money but will also set an appropriate example in an arid area. Storm drain structures are simple and few in number. (Appendices plated. An existing 16 inch water line, which extends through versity water system. The first three colleges will be scrved by the existing Rose Canyon sewer outfall. The balance of the gensewage treatment plant and reclamation pond in Sorrento Canyon on the campus. It is estimated that conserved water re-used



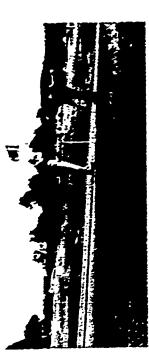


6. THE COMMUNITY

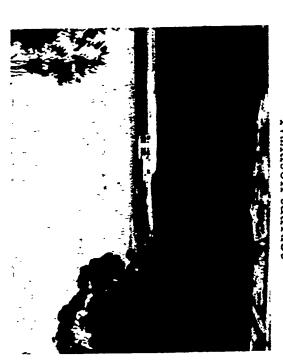
Many facilities significant to the university already exist or are planned in the immediate vicinity of the campus. The Salk Institute, a center for advanced research in biology and other fields, is under construction immediately west of the general campus. The Torrey Pines Golf Courses and Inn are completed adjacent to and northwest of the campus. General Atomics, has been in operation for several years adjacent to the north boundary. Scripps Hospital is under construction south of Genesee Avenue, and east of the San Diego Freeway. The La Jolla Country Day School is operated adjacent to the east boundary, and several churches are planned to be built immediately north of this site. A telephone company building is under construction in the branch civic center planned adjacent to the east boundary, north of the professional building center, west of the commercial service center, and northwest of the regional shopping center shown on the City Plan. The City Plan also calls for a high school, a junior high school, and an elementary school south of this center. Most of the funds have been raised for the La Jolla Theatre Arts building, which is planned to be built adjacent to the southwest corner of the campus. All these facilities will have a beneficial impact on University development.



GENERAL ATOMICS



TORREY PINES GOLF COURSE

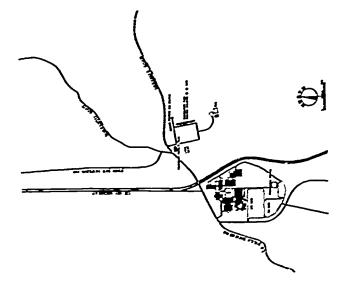


SCRIPPS HOSPITAL

. STAGES

ERIC Full Text Provided by ERIC

commodating 9200 students north of the central area in the call for accommodation of a second cluster of four colleges acmore than one-third of the general campus land. Growth plans following ten years, and a third cluster east of the center bestage plan, may possibly be deferred until the thind stage. Two tral facilities, should be in full operation, and it is expected that versity the size of Stanford today, without having committed by 1975 the addition of the Fourth College will round out a uniand non-academic requirements of a student body of about the from Highway 101 and a portion of Miramar Road. Three years as the School of Medicine should be in full operation on Camp Matthews land adjacent to the First College. A gymnasium to serve the first cluster, the first unit of the central library, and a portion of the administration building shown on the second and one-half years later, the Third College, as well as some censmall, compact university, capable of fulfilling the academic bined. The San Diego Freeway and the perimeter road system should be constructed by then, and traffic should be eliminated sities results in an economical development plan. Growth plans size and composition of Occidental College and Caltech comlater, the Second College accommodating 2300 students as well call for the completion of the First College in 1967 to accommodate about 2500 students in 1968. At that time UCSD will be a The academic consept of developing twelve partial univerfore the turn of the century



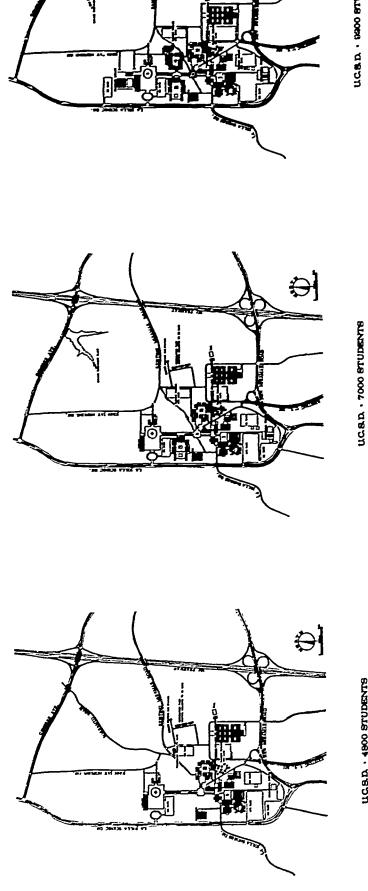
LCBD · 2600 STUDSINTS



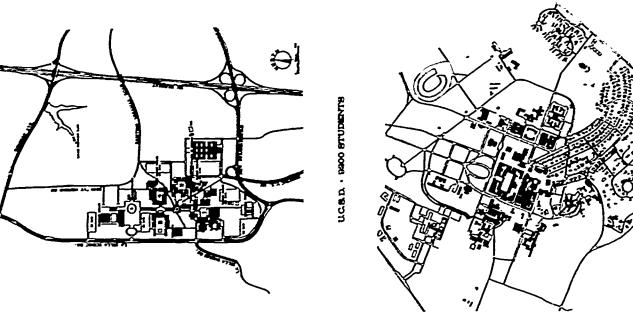
SCIDENTAL COLLEGES



CALIFORNIA INSTITUTE OF TECHNOLOSIN



College I could become the Physics Center, College in which to open areas and academic buildings could fill in spaces otherwise assigned to open areas between colleges, or to athletic space. If such a decision is made, the entire between colleges, or to athletic space. If such a decision is made, the and north and east clusters should be brought very much closer to the south and for academic buildings. Up to that time, and even possibly at a later date, period of time. Several years of experience in operating the college concept will occur before it is too late to change the concept radically. The first step which might be contrary to the principles governing a monolithic campus is the construction of College IV dormitories and dining halls, which would otherwise be placed on the perimeter of the plan as a whole to make room I could become the Physics Center, College II the Biology Center, growth plan is not only economical but flexible for a reasonable west respectively.



ucer · 4800 Students

 $\left\langle \cdot \right\rangle$

STANIORD UNIVERSITY CANTON HAND HANDEN

8. ARCHITECTURE

Design proposals have been made without any intention of forcing the architecture of the campus into molds, but rather to illustrate policies. A basic policy proposed by the Academic Plan suggests that each college have a distinct and memorable character of its own. To illustrate this policy, four college types are illustrated and repeated with some variation in each cluster. Each one depends for its distinction, not on superficial variety, but on the basic building form concept. Each college centers on a plaza, the scale of which has been studied for its internal relationships as well as its subservient role in the overall university plan. It is hoped and expected that other ideas will be developed as time goes on, but that the basic unity of a concept will not be violated.

The first college type had been established before it was decided to develop a full scale university campus. It is a relatively loose "open type" college plan, including a maximum of variety in form and building height.

The second college is illustrated as a "cube type" plan, derived from the service core laboratory buildings already found successful on the campus. Although the basic building form in plan is a square, building heights are proposed to vary from two stories to eight, and because the land drops naturally to the east, a distinct character can be developed on the skyline and in terracing of the courts.

The third college is illustrated as a "tower type." This type is suggested to be used near the center of the plan to conserve land. Buildings oriented to the north and south should open to a vista of the ocean to the west. Dining halls and other student center spaces are shown around an open court designed so that the roof deck affords a spectacular view. In contrast to slick, commercial slabs, the effect of an Italian hill town such as San Giminiano is suggested. In the campus design as a whole, two

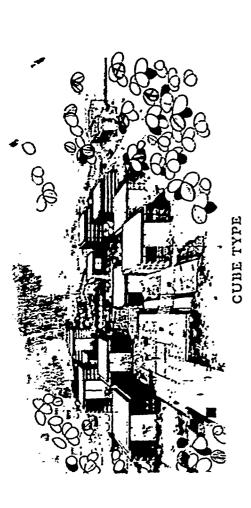
such tower colleges could form pylons framing the heart of the campus from Scenic Drive.

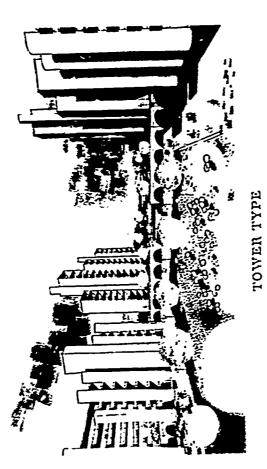
The fourth college is illustrated as a "cloister type." The interior court is similar to Christ Church, Oxford in scale, although the bulk of laboratory buildings surrounding it contrasts with the monastery scale of the English college. This type is not recommended for the west side of the ridge. A variation in College X includes residence and dining halls within the complex.

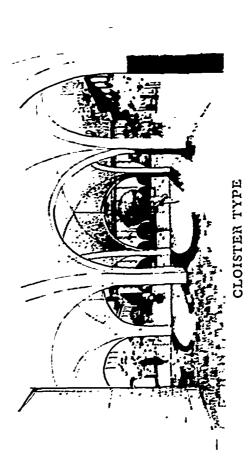


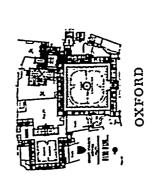
OPEN TYPI

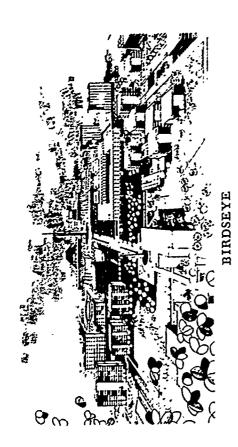


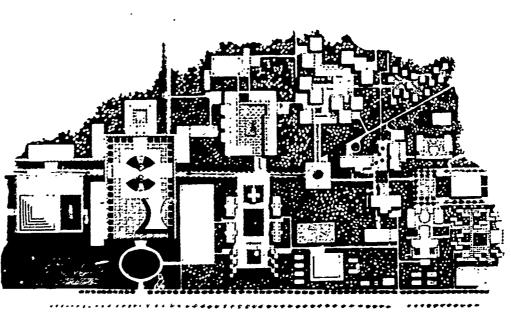












PLAN

ERIC ADMINISTRATION OF THE

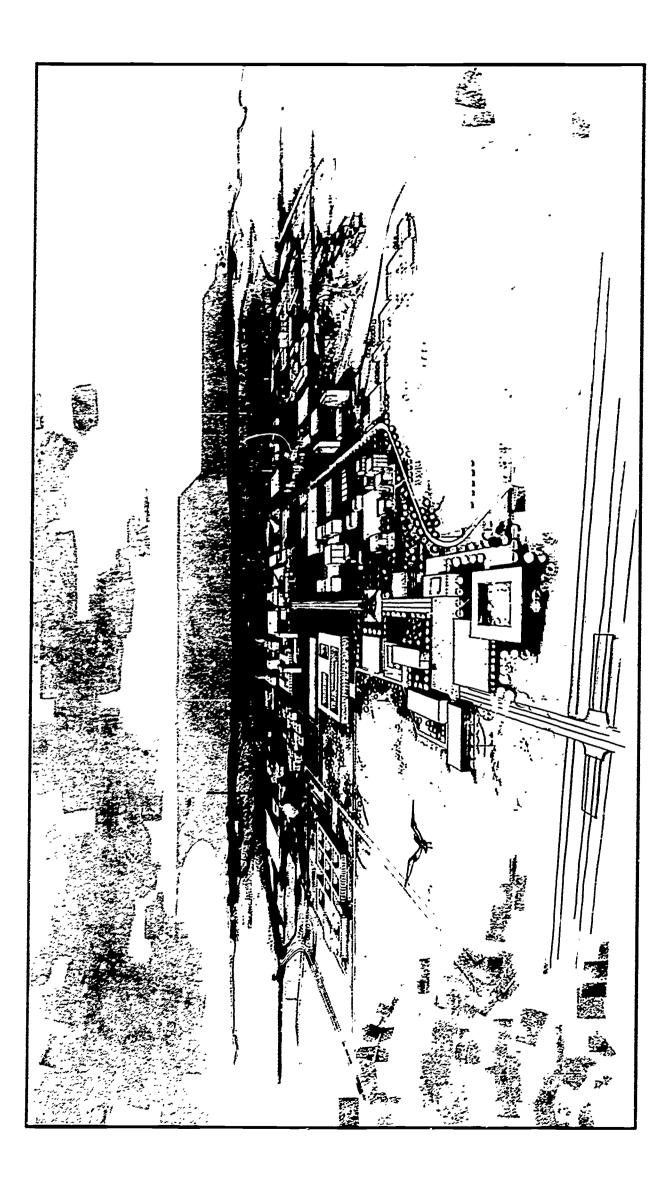
range economy of using a bronze colored hardcoat aluminum as the basic metal. It is hoped that general adherence to these campus furniture programs pervading the campus, will attain colors are to be avoided. The saline air should justify the long suggestions, in addition to the unified landscape, paving, and ground. Shiny "five and ten" store-front metal and garish erials and color selections. Such exuberant examples as the which it is proposed to ban from UCSD. The opposite effect that buildings of an old world university will be sought. Earth colors will be promoted. It is recognized that the scale of the buildings in earthquake countries, under the austerity of State finance, bined with limited amounts of pure white concrete, this material can be made an acceptable and even a virile neutral back-Such radically different building forms, consciously sought, ew simple rules on color and character should be adopted to achieve the objective, unified diversity. Industrial research and salesmanship have opened up a Pandora's box of building na-University of Mexico have sown a seed of wild exhibitionism, one encounters, for instance, in the unified and even somber must result in a substantial amount of undecorated concrete. Through the development of form and texture, however, comcould lead from distinction and diversity into chaos unless policies are developed to control them. It is proposed first, that a the unified diversity sought.

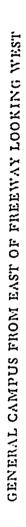
Another important policy suggested deals with the selection of executive archivects. The selection of a single firm to handle one college would probably attain the objective of maintaining

unity within a college. Because only eleven additional colleges are proposed to be developed over the next thirty years, however, this policy would not take advantage of architectural resources. The selection of several executive architects, independently and at different times to design parts of a college is almost bound to result in the chaos we seek to avoid. If the building program for an entire college is planned in advance, and if executive assignments are made simultaneously to all participants, even in some cases substantially in advance of actual engagement on given segments, the desired objectives might be attained. The leader of the group should be appointed to avoid subsequent internal conflict, and the group as a whole should agree upon design policies as they affect the character of the college complex to arrive at a schematic college plan.

The group might be given the option of forming a joint venture, but even as independent executive architects, having worked out the college concept together in advance, they will find it much more palatable to fit their components together into an harmonious and distinctive college plan. The speed of development after the start of the second college, calling for the completion of a new college every two and one-half years, appears to make this plan more feasible here than in a slowly developing institution.

Alternate solutions may be considered, such as increasing the responsibility of the consulting architect in specific building planning.







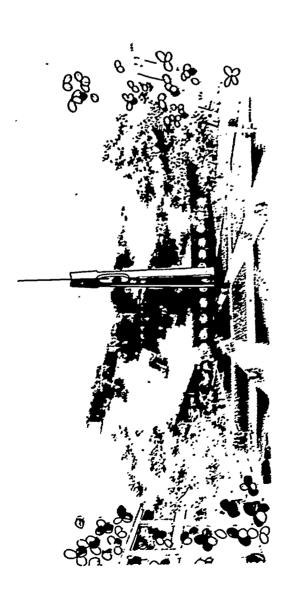


9. FEATURES

The approach to this Long Range Development Plan is based on the theory that appropriate, imaginative ideas of real three-dimensional improvements to the environment, even if not carried out literally, will prove more influential than abstract maps and land use regulations. Improvements in design will come through detailed study, and entirely new proposals should be considered, providing they actually offer improvements to the features suggested in the plan.

The great central plaza, rivalling the Piazza San Marco in scale, is referred to as the "communications center." A true center of the communicating arts, it would embrace communications through the written word in the central libraries, through speech and gesture in the auditorium and theatre arts center, through the visual arts in a gallery and museum, and through the administrative nerve center of the campus. It would include a TV and radio center, where large lecture halls, demonstration laboratories, and seminar rooms would be the source of closed and open-circuit TV and radio programs for the campus, the surrounding community, and the Statewide University. Large scale paving and ground cover designs at the University of Mexico have inspired the broad textures and patterns of the plaza.

At the center, a broad, shallow dish, 250 feet in diameter, will draw people to a gathering place which could accommodate as many as 6,000 students around an informal forum. From the center will arise a 360-foot communications tower designed in collaboration with Malcolm Leland, Consultant Sculptor.



THE GREAT PLAZA



CENTRAL AREA FROM SCENIC DRIVE

ERIC Provided by ERIC

The sculptured bronze-colored aluminum base, rising 220 feet, will contain an elevator, stair, and working platforms for electronic equipment. A mast above it will provide an aid to navigation, educational TV and FM, ship-to-shore local radio, a campus paging system, and micro-wave communication with other university campuses. Direct, inter-campus use of specialized computers and experiments such as those with laser light communication appear feasible. A bronze chime, sounding ships bells every half hour, is suggested as a tie to the traditions of the ship-oriented origin of the University in San Diego. Reflecting the light of a sunset for which the site is farnous, it might also provide the focus for non-sectarian spiritual communication appropriate to the University.

Three other lesser communication towers are suggested to mark the centers of the three clusters of colleges. Replacing the obsolete radio installation on the Scripps Campus, each tower would serve a specialized purpose. The tower marking the first cluster, for instance, might mount a rotating antenna with which oceanographers send messages to their ships at sea as far away as the Indian Ocean. The center of the third cluster might be marked by radio receiving equipment and a low-power transmission web. Each of the three towers might contain a central receiving antenna serving all TV sets in the surrounding cluster through wiring in the tunnel system. Building these focal points in advance of development might have the compelling effect produced by the seven obelisks which appeared to make great things happen around them long after they were erected by Pope Sixtus V in Rome.

The central undergraduate library is indicated at the north side of the central plaza at a point where there is an abrupt change in grade, making feasible grade-level access to at least two stories. This location marks the south border of a prominent existing rectangular table of land, which is suggested as the site for the graduate library. The policy proposal illustrated by its

design, is to use this dramatic site, fifty feet above Scenic Drive, overlooking the sea, for a great form that is at least as compelling as a Mayan Pyramid. If the graduate library is so designed, it is thought that each floor, surrounded by carrels, will offer access to a terrace overlooking the sea and the mountains. Seating space for 10% of the student body has been assumed in the plan to be located in college study halls which would contain standard library reference works, a print-out list of the library collection, and occasional loan collections of reserve books from the central library. Seats for 15% of the students and space for 2 million volumes are assumed to be accommodated in the central libraries.

Included in Pueblo Lands offered by the City to the University is an area of about 30 acres stretching west from Scenic Drive on the south border of the golf course to city-owned park land on the bluff overlooking the ocean. It is suggested that this be the site of a conference center, which would offer the idyllic environment found by other branches of the University at remote locations. A recreation center for the University as a whole, related to the beach and a natural picnic grove, might also be appropriate. If sufficient housing accommodations for conferences and visitors to the University are not provided conveniently elsewhere, this might be an excellent location for such a function.

The form suggested for an arena on the east campus has led to the suggestion that this might be the first campus of the University boasting a bull ring. This facility is proposed not mainly for spectator sports, but as a place where virtually the entire campus population could meet at one time to hear the President of the United States, for instance, when he visits the campus. No separate or special parking is proposed for this facility, which is designed mainly for internal university use. At other campuses, large crowds enjoy walking from remote parking areas on festive occasions. It is assumed that large-scale spec-

ERIC

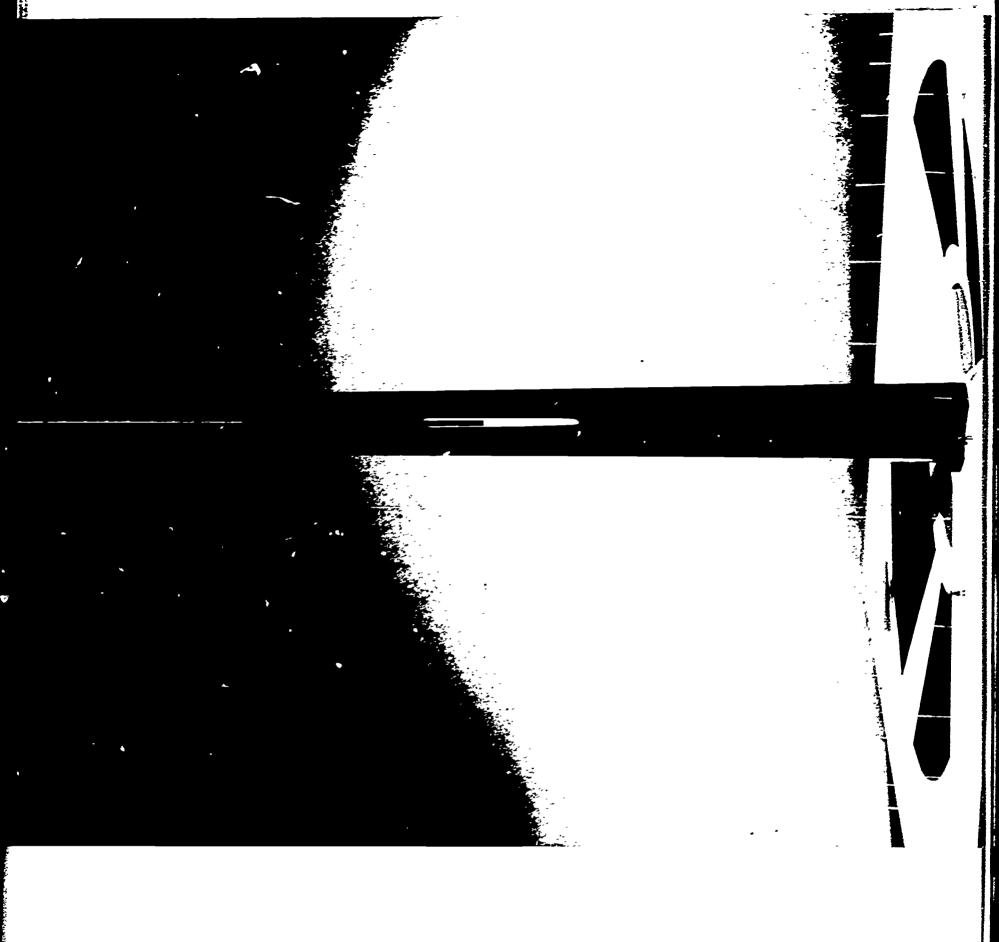
tator-sports events will be conducted off-campus. The design assumes a partially excavated arena, with tunnel entrances at grade to mid-points in the seating areas.

is suggested on the east promenade to dramatize the 50-foot rectly in an architectural experience. Another grand escalier stairway descending to the plaza from the north and by two open arcades crossing it, which would involve the visitor dichange in grade which occurs east of the plan center. Each stair mer palace above Granada. In an arid land, a small trickle of would be interrupted by a major change in grade at a dramatic of the south cluster, a system of narrow channels containing running water is proposed, similar to those developed in Persia, water is a welcome sound, and a tiny, splashing fountain is a delight. Small channels off the main stream might carry water trian way, about half as long as the Champs Elysées itself, exciting foreground to the graduate library. Along the length of the "Champs Élysées" of San Diego, which slopes down and carried by the Moors to the Generalife gardens, their sumdownhill to quiet pools in each college court. This major pedesabout 60 feet from the center of the north cluster to the center It is proposed to introduce water into the environment in several ways. The six acre reclamation pond in Sorrento Canyon will be a beautiful foreground for the campus seen from Genesee Avenue. At the main campus entrance on Scenic Drive, spray ponds 800 feet long will terrace up the hill, to form an would be supplemented by ramps.

In this age of complexity and motion, one is usually introduced to a campus by a sign or a disorganized complex of signs and symbols. It has become almost customary to develop a

multi-million dollar investment with the greatest care, and then to cheapen its appearance by lack of attention to the graphic arts and to the incidental details such as trash receptacles, benches, electroliers, fire hydrants, and curb marking, sometimes called "campus furniture" Furthermore, time and money are wasted repeatedly by visitors and by staff members helping them, if directions are not clearly presented. A report on graphics and campus furniture, prepared by Frederick Usher-John Follis and Associates, treats this subject from the standpoint of the Long Range Development Plan. It is urgently recommended that a policy he adopted recognizing this field as being important and worthy of time, attention, and appropriate funds.

the field, be established to stimulate and encourage the employment of distinguished examples of fine arts on the campus, to seek ways and means of obtaining them, and to maintain the phisticated people in this field. Many an architect has made that a fine arts commission, consisting of people respected in environment, only to find the selection of the art or the artist fine arts within the campus environment. Fine arts can be incorporated as an intrinsic part of the design of building elements. Every effort will be made to integrate fine arts into building design at UCSD in this context. The incorporation of fine arts as independent examples of painting, sculpture, ceramics, and mosaics, should be controlled by sensitive and sostrenuous efforts to introduce fine arts into the architectural decided on political or expedient grounds. It is recommended The Academic Plan has noted the importance of including quality of art on the campus at a high level.







APPENDICES:

Faculty and Student Body: (Quoted from Academic Plan, February 1 1963)

	Science & Technology	Social Sciences & Humanities	All Fields
Faculty FTB Faculty Heads Lower Division Students Upper Division Students Total undergaduate students	290 405 1200 1800 3000	290 405 1100 1600 2700	580 810 2300 3400 5700 3500
TOTAL STUDENTS	2000	4200	9200

These figures correspond to:

POSSBLE ORIENTATION OF FOUR COLLEGES.

Bach college might be divided into three or four divisions, each headed by a dean. In the following tabulation, we take the divisions to be science and technology, humanities and social sciences. It is desirable that, in each college, each division have a distinctive, though not excessive, leaning. (A possible leaning of a division of natural sciences is "earth sciences"). In this spirit, the following illustrations are concocted. Again, it must be emphasized that the following is more of an illustration of the general campus than a concrete plan. Other arrangements have been suggested, following the same general pretern.

Example Showing Some Similarities and Differences in Composition of Four Hypothetical Colleges. (Derived from Academic Plan, February 1963)

Faculty Strength by Campuswide Graduate Department in 1975:

20 20 20 20 20 20 20 20 20 20 20 20 20 2	10 10 10 10 10 125 40	35 20 20 25 25 125 595 9200
10 10 10 10 10 10 10 10 10 10 10 10 10 1	5 10 10 23 35 35 35 35 35 35 35 35 35 35 35 35 35	10 10 25 25 145
COLLEGE 3 4 10 10 15 10 15 10 15 10 10 10 10 10 20 20	15 5 35 35	
55 10 10 10 10 85 35 39 39 39 39 39 39 39 39 39 39 39 39 39	30 8 8	15 10 10 10 10 15 10 10 40 30 30 40 30 30 150 155 145
FTE 110 110 110 110 110 110 110 110 110 11	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	15 10 10 15 15 15 15 150 150 150 150 150
Scionco and Technology Scionco and Technology Mathematics Mathematics Physics Chomistry Biochemistry Biochemistry Biochemistry Biochemistry Astronomy Biology I Oceanography Barth Sciences Applied Science/ Engineering II Applied Science/ Engineering II Applied Science/ Engineering III	ilumanities Pine Arts Drama Music Buglish Linguistics and Languages Romance Literature Philosophy Classics TOTAL	History Social Sciences Economics Sociology Anthropology Psychology Political Science TOTAL FACULTY STUDBNTS
S A PROPERTY SECONDARY SEC		
÷	6	

These figures reflect the belief that both sciences and the arts are to be especially emphasized. The average college will have 5 science, 4 humanities, 3 social sciences departments, and history. It may be noted that the average department has 10.5 iTBs and 14.7 heads, large enough for a strong and reasonably broad group.

ERIC

*Full Text Provided by ERIC

	=	3.8%	2	25.5%	2	3.5%	02	21.0%	20	27.2%	8	19.0%	8	100. Æ	20	775 000 000
	16 1 Total GSF	ຕໍ	17100	25.	113500	ตั	15570	77	93550	27	120300	19	84700	01	444720	12075 70000 156000
	15 Non-State GSF		2000		15300		2720		16050		20100		15400		71570	
	14 No 1-State .4 x (7+8+9) + 7+ Shops		114	3120	8760	880 600 1	1554	3360	9196	4200 6250	11495	2800	8820		40969	19.0
BS.	13 State GSF 1.75 x 12	(Non-St.FTE)	(Shops, etc.) 15100		98200		12850		77500		100200		69300		373150	
PLANNING PURPOSES.	12 Total ASF 10+11		8613		56131		7345		45435		57255		39952		214731	100. 6900 40000 101320
RANGE PLAN	11 Shope, ott. Table 34		783		7321		350		4130		5205		1902		16961	9.5
FOR LONG R.	10 Subtocal 4,5,6,7,8,9		7830		48810		\$669		41305		52050		38050		195040	
UCSD	8 9 Acad. Of. Adm. Of. (Table 34 Restudy)		150		900		300		1000		1250		2100		2100	2.7
COLLEGE	8 Acad. Of. (Table 34		200		2400		1300		2400		3000		9100		18900	ω
"TYPICAL"	7 Rcs. Lab. 11 A.S.F.)		200		4500		009		2000		6250		2800		19650	9.1
	6 7 Res. Lab. Res. Lab Revised 10/61 A.S.F.)	, ,	2800 2800		25000 25000		2250 2250		20800 20800		27200 27200		10650 10650		88700	41.3
SPACE ESTIMATED FOR	5 Teach, Lab. (Table 33	1125	3075	14400	14400	, ,		4200 5400	0096	4200 7000	11200	1000	1740		40015	18.6
ß	dlassrms (A.S.F.)	215 250	140 605	1250	360 1610	770 825	950 2 5 45	1055 1150	300 2 5 05	1260	390 3150	3125	4010 11660		22075	10.3
	Students C	82 82	20 75	125	12 5 250	60 65	75 200	120	130 370	120 140	170 4 30	250		575 850	875 2300	2300 2300 800
	Div. Stud	98	GR TOTAL 3.3	99	GR TOTAL 10.9	98	GR TOTAL 8.7	98	OR TOTAL 16.1	98	GR TOTAL 18.7	99	0	98	GR TOTAL100.	(12) (F/S) s
	2 Subject Field	Arts		Bnghecring		Mathematics		Biological Science		Physical Science		Social Science		Total Academic		% Total A.S.F.(12) Study Hall (3 ASF/S) General Services Residence Halls
	Staff F.T.B.	'n		15		10		20		25		70		145		

1 through 4 - Academic Plan, February 1, 1963 5 through 12 - Derived from Restudy Standards by Architect 13 through 16 - Estimated by Architect

TOTAL "TYPICAL" COLLEGE 2300

685445



SUMMARY OF SPACE ESTIMATES TOTAL UNIVERSITY OF CALIFORNIA, SAN DIEGO CAMPUS

	ASF/ FTE	FTE NO. STUD.	ASF	GSF
"TYPICAL COLLEGE: (SPACE ASSUMED Academic Gen. Services & 800 St. Res. Hall	FOR PLA 121.0 61.0	FOR PLANNING PURPOSES) 121.0 2,300 278	278, 153 141, 320	486, 195 226, 000
I OKAI FOUR COLLEGE CLUSTER:	182.0	7, 300	419,473	712, 193
Colleges	182.0	9, 200	1,677,892	2,848,780
Military Sciences Total	1.0	9,200	9, 200	16, 100 2, 913, 180
UNIVERSITY:				
Three Clusters	186.0	27,500	5, 115, 000	8,730,000
Central Libraries	10.0	27,500	275,000	412,500
Central P.E.		: :	82,500	123, 750
Auditorium - Theatre	9.	:	16, 500	30,000
Corp. Yd. & Mech. Bldgs.	3.7	:	100,000	150,000
Grad. Stud. Apts. for 1600 Fam.	24.2	:	999	1,000,000
Total	230.2	=	6, 329, 250	10, 576, 250
MEDICAL SCHOOL:				
College of Medicine	500.0	400	200,000	350,000
O.P. Clinic & Services			99,000	115, 500
500 Bed Hospital & 510 ASF/Bed	:		255,000	446, 250
Student Health Total	7.7	27, 500	581, 500	1016, 750
TOTAL Except other Institutes			6,910,750	11, 593, 000
SUMMARY:				
Academic Only			3, 337, 836	5,834,340
Central Services			628, 374	1,029,910
College of Medicine			581,500	1,016,750
Housing & General Services			2, 363, 040	3, 712, 000
TOTAL Except Institutes			6,910,750	11,593,000

ASSUMPTIONS:

General: :

- There will be 12 Colleges of 2300 students each in addition to a college of â
- **ଛ**ତ
- medicine of 400 students.

 Bach college may vary as much as 10% from the normal population.

 Including 15% non-state space, each college will contain 475,000 G.S.F. academic space including an average of about 120,000 G.S.F. cach for engineering, biological science, physical science, and social science humanities.

 Students will take at least 2/3 of their classes in one college and the remaining 1/3 or less in other colleges. A cluster of four colleges will offer a comprehensive undergraduate curriculum capable of satisfying virtua. Any under-ਰ
 - - graduate program.
 75% of the library space will be centralized and 25% distributed to Collegos.
 50% of the physical education building space will be centralized and 50% distributed in three clusters for intramural use. ତ ଦ
 - Military science space will be distributed in three clusters.
- General campus administration, muscums, galleries, and a large auditorium will be centralized. 363
 - Each college will include housing for 800 students and a general services building including cafeteria for residents and non-residents. (Policy is to house one quarter. For space planning, 50% is assumed throughout.) Graduate student apartments will be located outside the academic campus, =
 - convenient to schools and shopping. \Rightarrow

Land and Building Criteria: 2.

- (direc stories plus hasement). Graduite space will be acceptable on upper floors. Average building height is assumed to be four stories plus basement. Maximum building coverage: 20% of land, plus parking. 100 students per acre, not including parking.

 Parking: 120 cars per acre. Under-graduate academic building height will be four etories maximum Э
 - 3000
- Recreation area: 2-2/3 acres per college plus 2 acres per cluster plus 35 acres centralized.

Parking: ن

7:1	1:1	:: ::	1:2	1:2	::	
Resident single students	Married students	Faculty	Commuting Students	Commuting Staff	Visitors (10% of total above)	Assume 75% of personnel on campus at one time
a	<u> </u>	ច	ਰ	១	c	æ

4.

- 275' per minute walking time.
- One-half minute each for entering class, leaving class, and ascerding or 53
 - descending one-story helght.
- 10 minute class break.
- Parking for faculty and staff, 4 minutes maximum from office. Parking for others, 10 minutes maximum from destination. ଓ କିତ

UNIVERSITY OF CALIFORNIA, SAN DIEGO AVAILABLE LAND

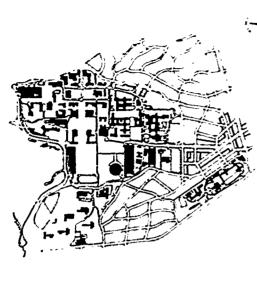
CHILD NEGETIES NEW CAMPOS EUCATION CHILD		ACADEMIC STRUCTURES Assume 200 SF Gross/Student Assume 4-Story Bldgs. @ 20% Coverage	27,500 x 200 GSF/St. * 5,500,000 SF Ground Coverage 1,375,000 SF	1,375,000 SF × 5	RESIDENT SINGLE-STUDENT HOUSING Assume 2/3 of 1/2 total students	1/2 x 27,500 = 13,750 x 2/3 = 9150 Assume 200 students/Acre	PARKING	Assume 9150 stingle students @ 1.57 st/car Assume 1600 faculty (1:17 total students) @ 1:1	9150 : 1.57 = 5825 + 1600 = 7425 cars 7425 cars @ 150/Acre	ATHLETIC & RECREATIONAL	ON CAMPUS SUB-TOTAL	GRADUATE TEACHING & RESEARCH	MARRIED STUDENT HOUSING Assume 4600 units (1/3 of 1/2 total)	2300 (no children) @ 36/Ac. = 64 Ac. 2300 (2 children) @ 17/Ac. = 136 Ac.		ක අ	3200 Commuting Staff @ 1:2 * 1600 13075 cars @ 150/Ac.	ATHLETIC FACILITIES	SERVICE FACILITIES
Net if 'il" West. Campus is Filled Net Usable		270		32		28	132							∞				200	
Net If "11" Is Filled								160		425					1	870			
Net Net if 'Il Buildable is Filled	78	270	30	32	360	28	132	115	40	345		22	77	æ	98	828	30	828	
Gross	cs 30.017	378.933	14.529	32.980	456.459	62.750	180.230	162.280	54.140	459.400		25.402	4.370	8.622	170.000	1124.253	41.085	1165.338	
l Descriptio Unit	GITY LAND (W of La Jolla Scenic Dr.) Acre	GITY LAND (W of Freeway) (N of Old Miramar)	CITY LAND (E of Scripps Hosp)	CITY LAND (@ Old Miramar & 101)	SUB-TOTAL	UNIVERSITY LAND (S.S.& E.)	CAMP MATTHEWS (W of Frueway)	CAMP MATTHEWS (N of New Miramar)	CAMP MATTHEWS (S of New Miramar)	SUB - TOTAL	Univ. has option to buy:	CITY LAND (S of Parcel "C")	CITY LAND (E of Parcel 'D")	CITY LAND (S of S.S. & E.)	UNIVERSITY LAND (S.I.O.)	GRAND TOTAL	CAMP MATTHEWS (S of New Mixamar) (Not suitable for Univ.)	TOTAL OWNED, PLEDGED & OPTIONED	
Parcel	⋖	23	O	ធា		Ľ.	O	Ħ	H2			Ω	×	-1			1		

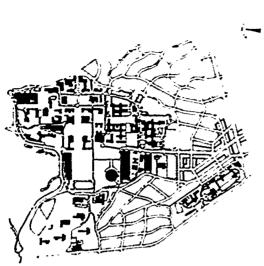
ESTIMATE OF LAND REQUIREMENTS FOR A CAMPUS OF 27,500 STUDENTS - BASED ON UCSD ASSUMED CRITERIA (MODIFIED REGENTS' NEW CAMPUS LOCATION CRITERIA)

12

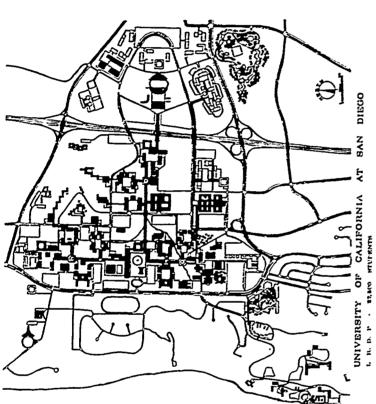
					300					469	769
ACRES	140	94	OS .	4	110	200	87	**	28		
	ACADEMIC STRUCTURES Assume 200 SF Gross/Student Assume 4-Story Bldgs, @ 20% Coverage 27,500 x 200 GSF/St, = 5,500,000 SF Ground Coverage 1,375,000 SF x 5 * 43,560 SF/Acre	RESIDENT SINGLE-STUDENT HOUSING Assume 2/3 of 1/2 total students 1/2 x 27,500 = 13,750 x 2/3 = 9150 Assume 200 students/Acre	PARKING Assume 9150 single students @ 1.57 st/enr Assume 1600 faculty (1:17 total students) @ 1:1 9150 : 1.57 = 5825 + 1600 = 7425 cars 7425 cars @ 150/Acre	ATHLETIC & RECREATIONAL	ON CAMPUS SUB-TOTAL GRADUATE TEACHING & RESEARCH	MARRIED STUDENT HOUSING Assume 4600 units (1/3 of 1/2 total) 2300 (no children) (ii 36/Ac. = 64 Ac. 2300 (2 children) (ii 17/Ac. = 136 Ac.	PARKING 4600 Married Students (§ 1:1 = 4600 13750 Conmuting Stud. (§ 1:2 = 6875 3200 Commuting Staff (§ 1:2 = 1600 13075 cars (§ 150/Ac.	ATHLETIC FACILITIES	SERVICE FACILITIES	OFF-CAMPUS SUB-TOTAL	TOTAL



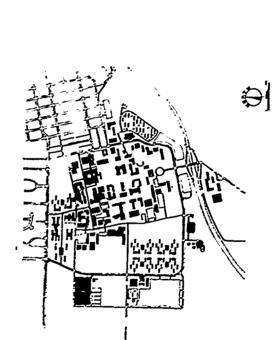




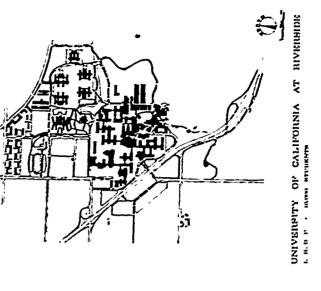
UNIVERBITY OF CALIFORNIA AT LOB ANGISLICA



UNIVERSITY OF CALIFORNIA AT BERKELEY



UNIVERSITY OF CALIFORNIA AT DAVIS



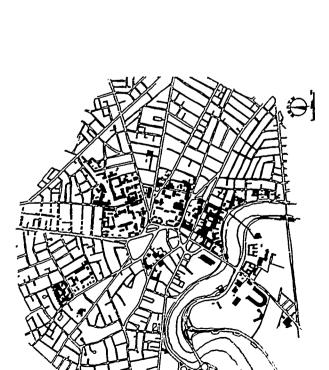
40

UNIVERSITY OF CALIFORNIA AT SANTA BARBARA I. N. D P. . 10000 HTURENN

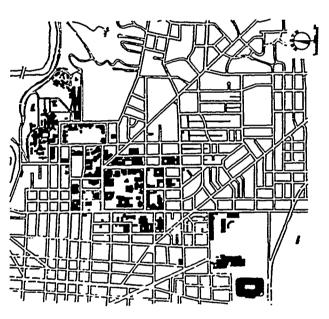




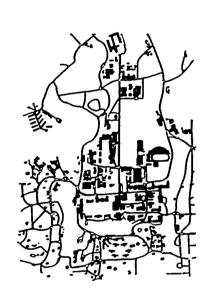
UNIVERSITY OF MINNESOTA



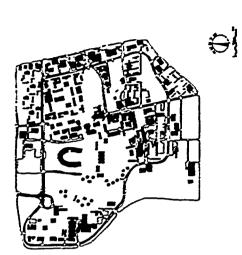
HARVARD UNIVERBITY CAMPR TAN . MAIN



UNIVERBITY OF MICHIGAN CAMPUR PLAN - BAIRS STUDENTS



CORNELL UNIVERSITY CAMPS FLAN + 11,000 STUDSTIFE



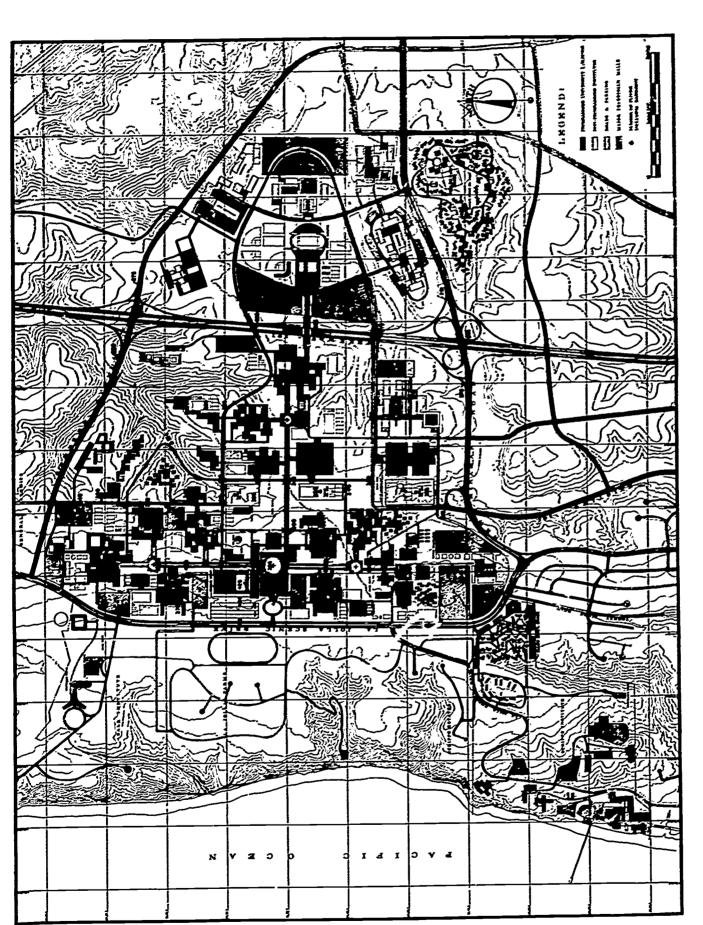
OHIO STATE UNIVERBITY



PRINCETON UNIVERSITY CAMPER PLAN . BASS WILDENTS



MABBACHUBETTS INSTITUTE OF TECHNOLOGY CANIVE FLAN . 6,000 MIUMNIN



PLAN DIEGO DEVELOPMENT CALIFORNIA О Ђ RANGE UNIVERSITY LONG

· DEC. 10, 1962 ROBERT E, ALEXANDER & ASSOCIATES ARCHITECTS & PLANNING CONSULTANTS

APPROXIMATE BASIC GRADES

42

7.0

AUTOMOBILE PARKING UNIVERSITY OF CALIFORNIA, SAN DIEGO

ERÎC --

CATEGORY	NUMBER	RATIO	- 1	SPACES	PROVIDED	
Resident Single Student	6,350 1,750		a	8,175 1,750 2,260		
Faculty Commuting Students " Staff	19,400		. 44	9,700 3,750		
	37,260			20,635		
10% Spaces				2,065		
				22, 700		
Less 25% Diversity				3,700		
Spacus required - Gen. Campus C' 116ge of Medicine				17,000	3,000	
TOTAL SPACES REQUIRED				21,500	21,800	
SPACES PROVIDED:	PROGRAM	RB	RESERVE	TOTAL		
West Campus Lots Garages Bast Lots M.S.A. Housing West Misc. at Bulldings	5,850 6,100 2,500 1,130 600					
	16,800					
COLLEGE OF MEDICINE	3,000			21,800		
S.I.O. Other Institutes	900	สั	450			N LCX
	22,600	М	2,850	25, 450		

ESTIMATE OF LAND REQUIREMENTS
Athletic & Recreational Facilities
UNIVERSITY OF CALIFORNIA, SAN DIEGO

ITBM		ટ્રે	Unit	University 27, S00 ST	Oroup 9, 166 ST	College 2,500 ST	Sub-T. for Univ.
Archery: Men Women	u g	••	300		86 86 86		0.18
Basketball		11	0.18			0.18	1 98
Velleyball: Men Wom	Men Women (Note A)	a°	0.13			0.13	1.43
Hockey		က	1.72		1.72	•	5.16
Tennis		‡ <	0.17	1.02		\$	7.48
Bleachers for Tennis	Cennie	•	0.19	1.14			1.14
Swimming Pool:	: Men Women	60 60	0.18		0.18		22.2
Baseball		60	5.78	17.34			17,34
Softball: Men (w/) (Note B) Men (no Women(no	Men (w/bleachers) Men (no ") Women(no ")						
Football-Track Track & Field	Football-Track (w/bleachers) Track & Field		5.78	8.00 8.00 8.00			5,4°
Football practice field	ice field	4	1.45				2,80
Touch football fleld (Note C) Handball	field	= 25	0.02			9. 50	17.60
Horagenoes	Sub Total	•			2.18	2.65	70.83
•	Stadium (Note D) TOTAL TOTAL	3	7	150.00 185.14			220.63
multiple use workers B Use alternates C Use alternates	multiple use with indoor basketball courts. Use alternates seasonally with fields for touch football. Use alternates essentially with fields for south.	field field	for to	uch football. oftball;			
D If large seatin	larger unit uses to pessing soldering as required, an additional if large seating capacity collecum is required, an additional 150 acree should be added for facility and supporting parking.	tacili	requi	rod, an additi supporting pa	ional rking.		

LAND USB UNIVERSITY OF CALIFORNIA, SAN DIBGO LONG RANGE DEVELOPMENT PLAN

ERIC Full Transition by ERIC

_						_
ACRES AVAILABLE				200.0	170.0	40. 0
ACRES REQ.	11.0 4.0 3.0 22.5	90.0 8.0 2.5 100.0	300.0 22.0 22.0 28.0 400.0	58.0 25.0 8.0 8.0 5.0	10.0 40.0 10.0 10.0 45.0 55.0	25.0 6.0 6.0
% CCVBR	222	70	2222	20 00	50 20 20 20 20 20 20 20 20 20 20 20 20 20	
AVB. HT.	10 CI 7F	1.5	****	တ ဟ		
GSF	480,000 70,000 136,000	2,824,000 Sc. 64,400 5% CLUSTER 2,888,400	8,700,000 572,500 572,500 1,000,000 1,000,000 11,845,000	3,300,000 700,000 15,845,000	123,750 127,000 150,000 2,400,000 2,800,750	562,500 62,500 62,000
	TYPICAL COLLEGE: Academic Gen. Services Residence Halls - 800 St. Recreation 2.65 Ac. + 13% TOTAL TYPICAL COLLEGE	Four Colleges Intramural P.B. & Mil.Sc. Recreation 2.18 Ac. + 15% General Campus Mall TOTAL TYPICAL CLUSTER	Three Clusters Central Facilities Reserve-Galleries, etc. 100% College of Medicine Med. Expansion 100% TOTAL ACADEMIC & RES.	Parking Lots - 7000 @ 120/A 3 Story Garages - 9000 @ 360/A South Reserve - Service Organiza- North Reserve - " tions Reserve for Lestitutes GENERAL WEST CAMPUS 1	Univ. P.E. Athletic Areas 35.14 Ac. + 14% Areas (Net) 30,000 Cap. Corporation Yard Parking Lots - 5400 @ 120/A Reserve for Institutes GRNERAL BAST CAMPUS	Married Stud. Apts 900 @ 36/A " " 100 @ 17/A Parking Lous - 1000 @ 120/A TOTAL BAST HOUSING SITE

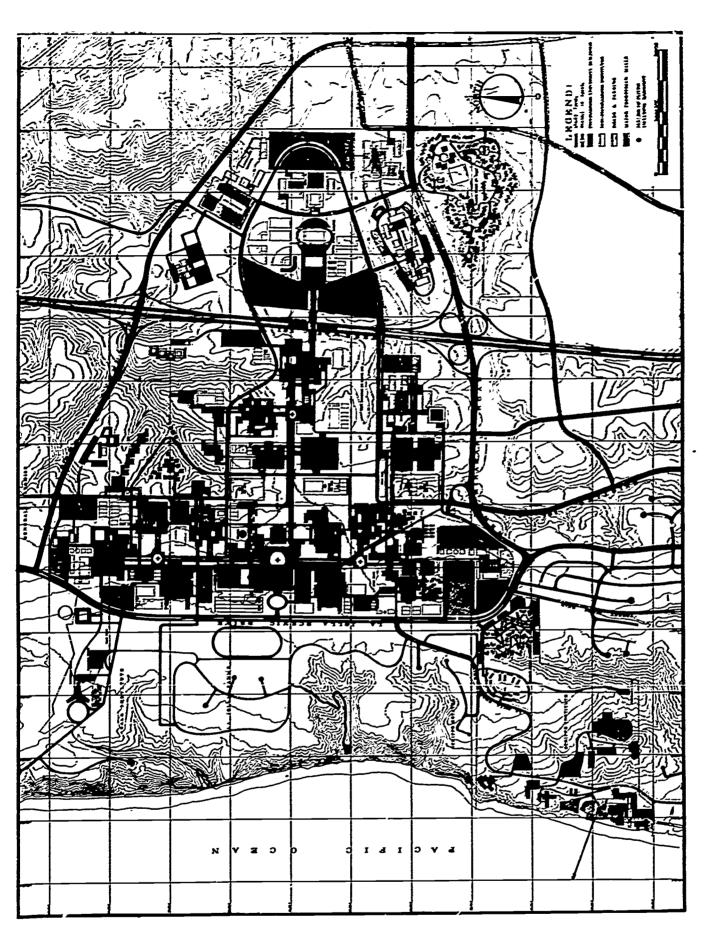
LAND USB UNIVERSITY OF CALIFORNIA, SAN DIBGO

p.2

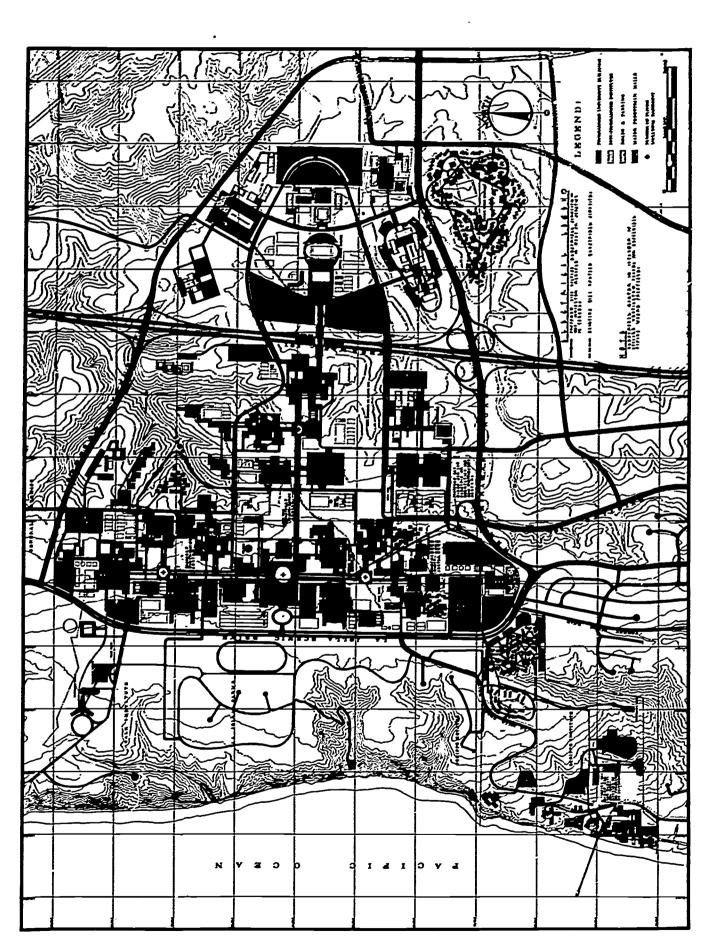
LONG RANGE DEVELOPMENT P.AN

	SSP	AVB.	COVER	ACRES REQ.	ACRES AVAILABLE
GENERAL WEST CAMPUS GENERAL BAST CAMPUS BAST HOUSING SITE	15,845,000 2,800,750 625,000			500.0 170.0 40.0	500.0 170.0 40.0
Married Stud. Apts.500 @ 36/2. " 100 @ 17/A Parking Lots 600 @ 150/A WEST HOUSING SITE	312,500 62,500 375,000			24.0 24.0 24.0	24.0
S.I.O. Academic (Incl. Reserve) Parking Lots 2080 @ 120/A Roserve for Institutes Parking " 960 @ 120/A SIO SITE Conference and Rec. Center	312,000	4 4 ~	50 50	21:0 17:0 16:0 28:0 28:0	62.0 28.0
TOTAL CAMPUS	20,925,867			825.0	625.0
SUMMARY Academic incl. Med. Rea. Halls & Gen. Sarvices Recreation incl. P.B. & Mil. Sc. Parking 20,000 cars Parking Reserve = 6040 Reserve incl. S.I.O. Conference Gentur Reserve Commercial Reserve TOTAL LAND USE				182.0 163.0 126.0 116.0 50.0 149.0 180.0 110.0 110.0 110.0	825.0
UNUSED LAND (Steep & Canyons)	_				
Conference Center S.1.0. West Campus Bast Campus TOTAL UNUSED					1,57 84,00 162,55 50,91 299,03
TOTAL LAND					1,124.03
PARCEL J TO BE TRADED					39.85

44



PLAN HEATING & COOLING DISTRIBUTION BONS M. LENOS. METIANICAL CONSULTANIN' DIEGO ROBERT E. ALEXANDER & ABBOCIATES ARCHITECTS & PLANNING CONBULITANTS SAZ CALIFORNIA SAN DEVELOPMENT Q F RANGE UNIVERSITY LONG



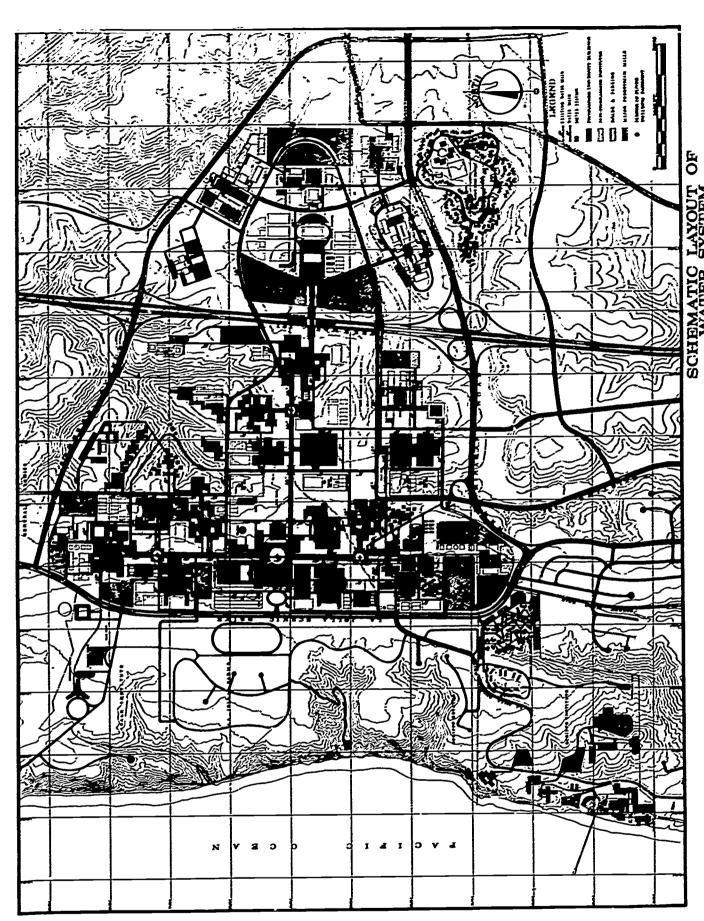
ERIC Full Text Provided by

DIEGO LONG RANGE DEVELOPMENT PLAN ROBERT E. ALEXANDER & ASSOCIATES ARCHITECTS & PLANNING CONSULTANTS - PED 14, 1963 SAZ DEVELOPMENT CALIFORNIA О F RANGE UNIVERSITY LONG

ELECTRICAL DISTRIBUTION

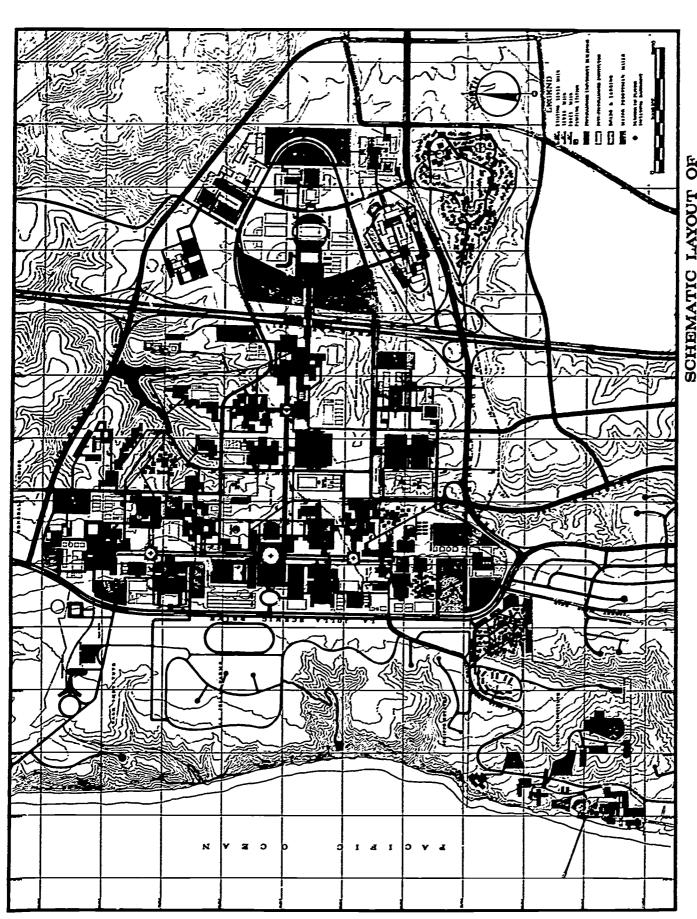
46

FRUMHOFF & COHEN, ELECTRICAL, CONSULTANTS



E. ALEXANDER & ASSOCIATES ARCHITECTS & PLANNING CONSULTANTS . 1913, 14, 1903 ENGINEERING CONSULTING ENGINEERS SCHEMATIC LAYOUT OF WATER SYSTEM CALIFORNIA SAN DEVELOPMENT 0 F UNIVERSITY LONG RA

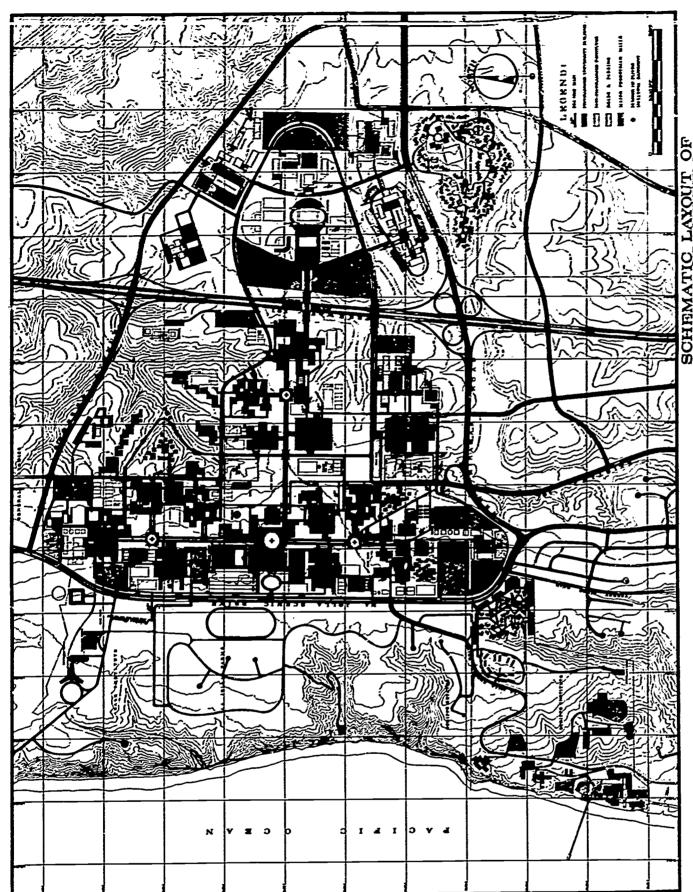
ROBERT BOYLE



ERIC Arull Sect Provided by ERIC

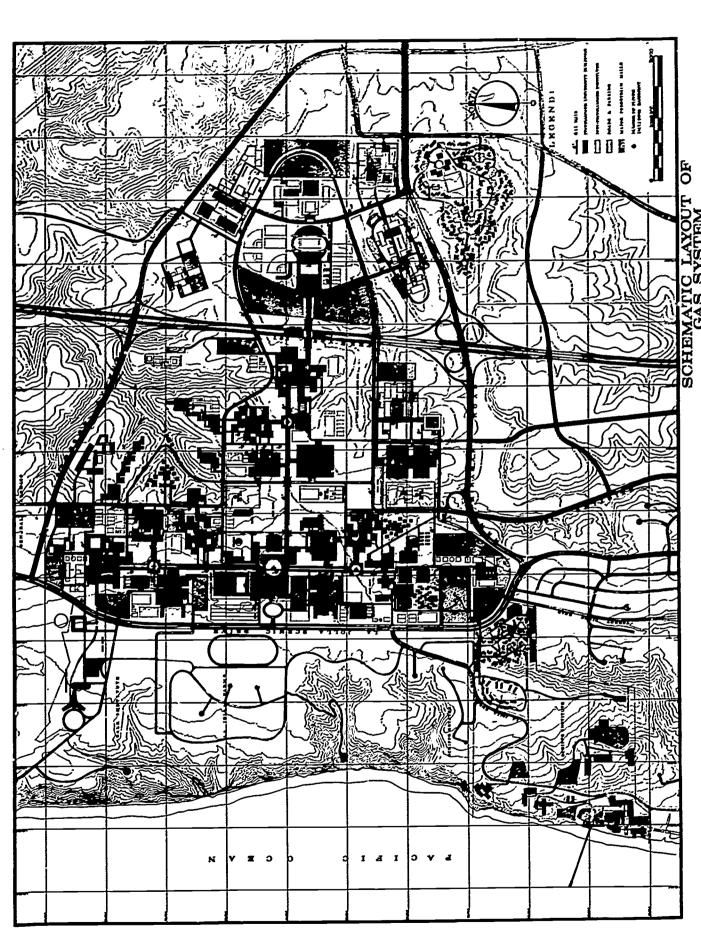
CALIFORNIA SAN DIEGO DEVELOPMENT PLAN PLAN 0 F RANGE UNIVERSITY LONG

· FED. 14, 1969 Robert e. Alexander & Associates architects & Planning Consultants Boyle engineering Consulting Engineers



PLAN DIEGO SCHEMATIC LAYOUT OF DRAINAGE SYSTIEM CALIFORNIA SAN DIEG DEVELOPMENT PLA ITY OF RANGE UNIVERSITY LONG RAP

· FT8B, 14, 1003 E, ALEXANDER & ASSOCIATES ARCHITECTS & PLANNING CONBULTANTS ENGINEERS ROBERT BOYLE



PLAN DIEGO SCHEMATIC LAYOUT OF GAS SYSTEM DEVELOPMENT CALIFORNIA RANGE UNIVERSITY LONG

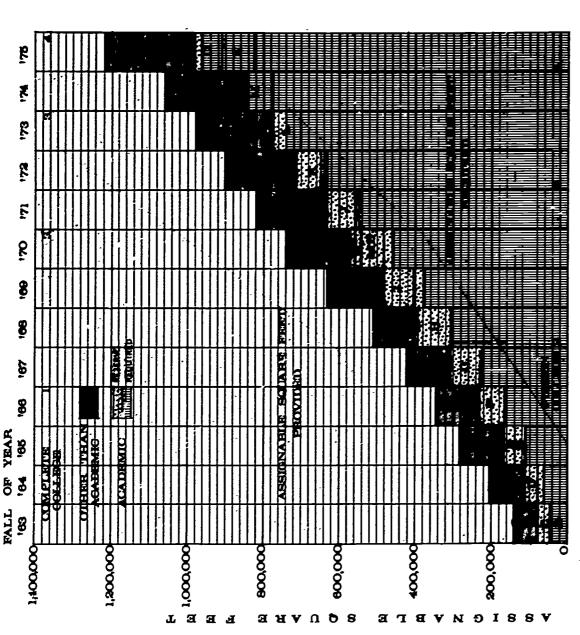
· FEB. 14, 1003 E, ALEXANDER & ASSOCIATES ARCHITECTS & PLANNING CONSULTANTS ENGINEERING CONSULTING ENGINEERS ROBERT BOYLE

51

UCSD ACADEMIC A.S.F. REQUIRED TO SATISFY ESTIMATED GROWTH Colleges #2,3 and 4 Flanned to Accommodate 2300 Students each (232,000 e.s.f.) - Trimester Flan

				College	Colleges #2,3 and 4 Planned to Accommodate 2300	to Accomm		TO SATISFY ESTIMATED GROWTH Students each (232,000 e.s.f.) - Trimester Flan	1MA'1 ED GROW'1H 300 e.e.f.) - Trime	iter Man				
-		a	6	-	1 0	٥	ł	•	9.	10.	11.	12.	13.	 =
Student							Cumulative						Cumulative	
Barollment	ent		:	:			Academic	Cum. A.S.F.	Cum.A.S.F.	Additional		Cum.A.S.F.	Non-State	Non-State
Occupied		Project	Occupied	A.S.F.	Non-Academic A.S.F.	Academic A.S.F.	Available	Keetudy Space Yr of Occupancy	State Funded Spon. Res. Space	30,000 A.S.F. Orowth Space	Space per College	Total Space Regulred	A.S.F.	A.S.F.
		AVERAGE ARBA PER STUDENT:	DBNT:					94.32	6.35					2171
175		(Bullding B (Bullding C	63 83	87000 53200	51300 10900	35700	78000	16500	1100	30000	}	47600	10900	3100
325	<u> </u>	(Building D	3	92000	29400	35600	113600	30600	2100	30000		62700	40300	28 001
80	College	(Bullding B (Acad.Incr.Bldg.B (\$ 65 65 65	78000	20000	28000	108400	75700	\$100	30000		110600		1430.)
1355		(Building F	9	63300		63300	231700	1,27800	8600	30000		166400		2420x}
1940	<u> </u>	(Building G	67	77400		77400	309100	183000	12300	30000		225300		3460.1
2650	ollege 2	(Building H (include study hall) (Acad. Incr.Bidg.B (Med.Lib)	88 (114	84200		84200	404300	249000	16800	30000	0069	302700		4730)
3450		(Building I Materials Res.Inst.	66	77300	45000	77300	481600	325000	21900	30000		376900	.83300	6160)
4250		Library Acad. incr.Bidg.B (Library) Acad. incr.Bidg.B (Library)	223	110000	20000	60000 12500 16000	570100	400900	27000	30000		457900		75901
2150	\sim	(Building J (Acad.Decrease in Library	22	77400		77400	632500	485000	32700	30000		547700		9190)
6100	olleg	(Building K (include study hall)	27 (111	84200		84200	716700	575000	38700	30000	9	920600		106901
7050		(Building L Acad.Decrease in Library	27 27	77300		7/300	774000	99299	44800	30000		739800		12580)
8100		(Building M	7.	77400		77400	851400	764000	21400	30000		845400		14460)
9200	Colleg	(Building N (include study hall) (Building O Acad. Decrease in Lib.	(II) 25 25 25 25 25	84200 77300		84200 77300 -25000	987900	868000	58400	30000	0069	963300		16420)

NOTE: This chart was prepared by the Architect with the assistance of the A & B office. Buildings in College 1 are actual areas. Other 'Buildings' are increments projected to satisfy estimated growth for master planning purposes.



ASSIGNABLE SQUARE FEET REQUIRED TO BE SCHEDULED FOR ACADEMIC USES TO SATISFY ESTIMATED GROWTH

(ABITUDY STANDARDS + 3 A.S.P./FT. COLLEGE STUDY HALL = 131 A.S.P./FT.)

GREEDING SHOWN YEAR OCCURREN

UNIVERSITY OF CALIFORNIA SAN DIEGO

CAMPUS BUILDINGS - UCSD

I. EXISTING

t. Architect	Rislay and Gould Rislay and Gould Rislay and Gould Frank L. Hope & Assoc. Lloyd Ruocco	Wheeler & Hallay Mosher & Drew Louis J. Gill Frank L. Hope & Assoc. Frank L. Hope & Assoc. Risley and Gould Risley and Gould Risley and Gould Risley and Gould Frank L. Hope & Assoc.	
Approx. Gruss Sq. Ft.	12,240 148,181 106,633 2,300 37,423	11,906 71,990 71,990 9,533 6,073 6,173 14,410	115,000 100,000 1,000 4,000 41,000 11,500 11,500 11,500
Addition		1961 1956 1960	1964
Yaar	1963 1963 1958 d 1958	1916 1962 1931 1951 1961 1960 1960 1960	
Stricture	Building A Building B Building E Experimental Aquarium Institute of Goophysics and	Library (5.1.0.) Plar Buildings Residential Apartments Ritter Hall Scripps Building (new) Seawater Conversion and Core Storage Facility Sumner Audit orium Sverdrup Hall Vaughan Aquarium-Museum	II. UNDER CONSTRUCTION Building D III. PLANNING STAGE 1968 Building R Building R Building R Bquipment Whee Building Bxperimental Aquarium Gen'i Services & Cafe.Bidg. Hydraulic Laboratory Fhysiological Research Lab. Res. Hall, Unit I

CAMPUS BUILDINGS - UCSD (Cont'd)

IV. TO BE DEMOLISHED

Abdition Gross Sq. Pt.	,	1962 4,402 , 930 1,942 7,140 1,200	6,980 2,700 6,202 2,986 1,800	2,676 240 3,021 1,494 1,742 1,310
<1	;	= i		
Year	1950 1950 1950	1953 1952 1960	1906 1954 1948 1915 1960	1915 1917 1915 1915
Structure	B.T. Storage Corporation Yd. Complex: Buildings & Grounds North Garage West Garage	Purchasing - Storehouse Geodesic Domes Radio Buildings Res. Support Shop Ritter Res. Yard	Scripps Bidg. (old) Storage Bidg. TB's 1 - 4 TB's 4 - 8 TB 8 -	TB 16A TB 21 - 24 TB 25 - 24 TB 30 TB 30

MEMBERS OF CAMPUS PLANNING COMMITTIES - SAN DIEGO for all, or a portion, of the period from July 1, 1961 to June 30, 1963

Chancellor and Chairman	Consulting Architect	Acting Dean, School of Science and Engineering	Acting Dean, School of Science and Engineering	Dean, School of Science and Engineering	(The First College)	Assistant Chancellor - Business and Finance	Assistant to Chancellor	Chairman, Educational Policy Committee	Administrator, Central Services	Vice Chairman, Academic Senate	Vice President - Business (Statewide)	Acting Director, Scrippe Institution of Oceanography	Building Program Coordinator and Executive Secretary	Planning Analyst	Consulting Landscape Architects	
Dr. Herbert York	Mr. Robert B. Alexander	Dr. J.R. Arnold	Dr. D.M. Bonner	Dr. K.A. Brueckner		Mr. J.H. Clark	Mr. K.H. Drummond	Dr. Carl Eckart	Mr. I.W. Hutchison	Dr. Joseph Mayer	Mr. Blmo Morgan	Dr. H. N. Soless	Mr. J.W. Tippetts	Mr. J.V. Watters	Mrs. Harriet Wimmer and)	Mr. Joseph Yamada

· Alternates for Mr. Morgan:

University Architect (Statewide) University Planner (Statewide)	CONSULTANTS FOR LONG RANGE DBVBLOPMBNT FLAN
Mr. R.J.Evans Mr. A.R. Wagner	CONSULTANTS FOR I

	3
PLAN	P.A.I.A.
CONSULTANTS FOR LONG RANGE DEVELOPMENT PLAN	t B. Alexander, I
RANOB	Robert B.
LONG	**
ğ	Jame
CONSULTANTS	Architects and Planner

rchitects and Planners	Robert B. Alexander, F.A.I.A. & Associates
* Landscape Architects	Wimmer & Yamada, Inc.
• Clvil Engineers	Boyle Engineering
Structural Bugineers	Parker, Zehnder & Associates
* Mechanical Engineer	Borfs Lemos
* Blectrical Engineers	Frumhoff & Cohen
Soils Mechanics Engineers	Soils Mechanics Engineers LeRoy Crandall & Associates
Arronomists	Burene L. Begg
Traffic Burinests	Allen M. Voorhees & Associates, Inc.
Graphic Consultants	Frederick Usher - John Follis & Associates
Sculptural Consultant	Malcolm Leland
Delineators	Benton & O'Dowd
* Recall Market Analysts	Real Batate Research Corporation

. L.R.D.P. Reports by these consultants are on file.